S Librae

 $15^{h} 13^{m} 4^{s}$ (1855.0) $-19^{o} 51'.7$

Max. = 2405692^{d} (17. Jun. 1874) + 192^{d} 1 E.

Num.	Gradus	Magn.	BD.	Λα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0	7.4	7.3	$-1^{m}29^{s}$	+50'.5	,	24	49	11.0		$+0^m 37^s$	+ 3'.3	
2	8	8.0	8.3	+1 49	+35.6		25	49	11.1		-0 31	- 4.8	,
3	9	8.1	8.1	-1 36	-28.1								
4	14	8.4	8.9	+2 19	+37.8	1.00	26	52	11.3		+0 41	+ 5.7	
5	15	8.5	9.0	-1 56	+26.4	• \	27	54	11.4		-0 34	- 9.9	00
4	15	OE	,	.0.45	97 A		28	56	11.6		+0 12	- 6.7	·jn
6	15	8.5	8.6	+2 45	-27.4		29	56	11.6		+0 53	+14.7	4.1
7.	16	8.6	9.2	+1 59	+39.1		30	60	11.9		+0 7	+ 7.0	
8	20	8.9	9.1	+1 9	-19.0		31	61	11.9		+0 50	- 5.7	
9	24	9.2	9.3	+0 13	-15.0		32	62	12.0		-0 5	- 8.4	8
10	24	9.2	9.3	-0 19	- 3.6		33	62	12.0		-0 43	+ 7.2	
II	25	9.3	9.1	+1 4	-20.2		34	65	12.2		+0 5	+ 2.5	Sch. 12.13 ^M
12	26	9.4	9.5	+1 18	- 4.2		35	65	12.2		+0 7	- 7.8	
13	28	9.5	9.2	+0 53	+20.1			00	10.9		Λ 01		
14	29	9.6	9.5	+1 20	+23.1	0	36	66	12.3		-0 21	- 0.9	4
15	31	9.7	9.8	0 0	+29.9		37	67	12.4		+0 36	- 1.3	,
-6	31	0.7		0.10	0.0	*	38	68	12.5		-0 39	- 0.7	χ.
16	31	9.7	9.5	-0 12	- 6.6		39	68	12.5		-0 15	+ 1.9	0 1 W
17		9.7	9.5	+0 15	-16.8		40	69	12.5		-0 2	+ 2.2	Sch. 13 ^M
18	32	9.8	9.4	-0 23	-22.5		41	71	12.7		+0 14	- 9.3	
19	35	10.0	9.8		+ 9.4		42	72	12.7		+0 52	-12.7	
20	36	10.1	9.7	-0 56	- 6.9		43	74	12.9		-0 5	- 1.3	
2 I	37	10.2	94	+2 29	+32.3	•	44	75	13.0		-0 36	- 3.6	
22	44	10.7		+0 40	10.0		45	82	13.5		-0 37	-11.1	
23	45	10.8		+0 19	-10.5								

5644

Z Librae

 $15^{\rm h} 38^{\rm m} 5^{\rm s}$ (1855.0) $-20^{\rm o} 40'.1$

 $Max. = 2407109^d$ (4. Maii 1878) $+ 295^d$ E.

Num.	Gradus	Magn.	BD.	- Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
r	0	7.8	7.8	$+1^m 0^s$	- 6'.6		16	50	10.5		$-0^{m}55^{s}$	- 6'.5	
2	17	8.7	8.8	+0 37	-24.5	a a	17	51	10.5		+0 12	+ 8.9	
3	19	8.8	9.1	+0 24	-12.5		18	52	10.6		-0 46	+ 3.1	
4	25	9.2	9.3	+1 12	-23.6		19	53	10.7		+0 16	+ 1.4	
5	28	9.3	9.3	+0 15	-16.4		20	54	10.7		-0 37	+ 4.3	
6	31	9.5	9.3	-0 10	+ 9,1		21	56	10.8		-0 39	+12.4	
7	32	9.5	9.6	+1 41	+11.3		22	58	10.9		+0 43	+13.9	
8	34	9.6	9.5	-0 41	+23.8		23	60	110		-1 0	- 2.9	
9	37	9.8	9.8	-1 33	- 9.5		24	61	11.1		+0.26	+ 6.7	
10	39	9.9		-1 36	- 3.2	-80	25	66	11.3		-0 49	-12.5	
II	40	99	9.7	-0 10	- 0.2	*	26	66	11.3		+0 22	+ 5.2	
12	43	10.1	10	+0 39	-13.9		27	68	11.5		+0 29	- 1.8	
13	44	10.1		-0 5	+ 3.2	5	28	71	11.6		+0 8	+ 8.2	Duplex.
14	47	10.3	TY	-0 13	- 1.1		4			î			
15	49	10.4		+0 20	+ 1.4								

^{* 11,} Vide notam erroneam in Ch. III.

4816

V Virginis

 $13^{h} 20^{m} 19^{s}$ (1855.0) $-2^{o} 25'.2$

Max. = 2400456.5 (15. Februar 1860) + 250.5 E.

Num.	Gradus	Magn.	BD.	Δα	Λδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0	8.0	8.0	$-1^{m}40^{s}$	-29'.4		13	57	11.4		$-1^m 6^s$	- 5'.7	•
2	18	9.1	9.0	+1 30	+12.9	J.	14	58	11.5		-0 34	- 0.3	· ·
3	24	9.5	9.5	+1 44	+ 6.9		15	59	11.5		-1 1	+ 0.6	
4 5	26 30	9.6 9.8	9.5 9.5	+0.25 -1.31	$-29.7 \\ +26.4$		16	59	11.5		+0 46	- 9.6	,
							17	60	11.6		-0 41	+ 0.9	
6	32 32	9.9 9.9	9.7 10	+0 8 +1 50	$-16.2 \\ +22.2$		18	69 70	12.1 12.2		-0 4 $-0 20$	+12.9 + 5.4	
8	36	10.2)10	-0 10	+24.4	*	20	73	12.3		+0 46	+12.3	e:
9 10	40 43	10.4 10.6)10 	-0 14 -0 6	+24.4 +14.4	·	21 W	75	12.4	var.	-0 5 -1 46	$\begin{vmatrix} -6.9 \\ -12.3 \end{vmatrix}$	Vide Seriem IV
11 12	52 54	11.1 11.2		+0 57 -0 16	+11.7 +10.2	-3							· ¥ ·

M = 9.5 + 0.059 (G - 24.8).

5776

X Scorpii

 $16^{h} 0^{m} 2^{s}$ (1855.0) $-21^{o} 8'.3$

Max. = 2406364^{d} (19. Apr. 1876) + 199.0^{d} E.

	<u> </u>												
Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0	8.1	8.0	-1^m41^s	-19'.2		21	51	11.1		$-0^{m}47^{s}$	- 0'.6	· .
2	2	8.2	8.2	-0 47	+ 7.5		22	53	11.2		+0 36	+11.4	
3	13	8.8	9.1	-1 43	-22.8		23	55	11.3		-0 49	- 8.7	
4	13	8.9	8,8	+0 42	-24.3		24	57	11.4		+0 1	- 3.0	. •
5	15	9.0	9.1	-1 32	+14.4		25	58	11.4		+0 56	- 7.2	· · ·
, 6	18	9.1	9.2	+2 7	- 6.9	*	26	61	11.6		+0 20	+ 6.0	,
7	23	9.4	9.5	-1 40	+23.1		27	61	11.6		-0 38	+ 0.3	*
8	23	9.4	9.5	+1 32	- 3.0	X-	28	63	11.7		+0.54	- 5.7	
9	26	9.6	9.8	+1 38	+20.4		29	64	11.8		+0 1	+ 1.8	
10	28	9.7	9-5	-0 12	- 5.7		30	67	11.9		+0 17	- 4.2	000
11	30	9.8	9.7	-1 1	-24.6		31	67	12.0		-0 9	- 6.6	.
12	32	9.9	10	+1 8	+ 0.3		32	68	12.0		-0 19	- 1.5	
13	32	10.0	9.5	-0 18	+ 2.1		33	71	12.2		-0 43	0.0	*
14	33	10.0	9.5	-1 57	-14.4		34	71	12.2	0	+0 26	- 5.4	
15	34	10.1	10	-0 36	+18.1		35	72	12.2		-0 25	- 3.0	
16	35	10.1	9.7	-1 0	- 5.4		36	73	12.3		+0 3	+11.1	
17	41	10.5		-0 31	+13.2		37	75	12.4		-0 23	+ 5.4	-
18	44	10.6		+0 26	- 2.4		38	78	12.6		+0 18	+ 0.3	
19	45	10.7		+0 1	+ 7.5		39	79	12.7		-0 49	- 5.7	
20	50	11.0		+0 50	-14.7		Z			var.	-2 33	-11.8	

Z Virginis

 $14^{\text{h}} 2^{\text{m}} 33^{\text{s}}$ (1855.0) $-12^{\text{o}} 36.5$

Max. = 2407861^{d} (25. Maii 1880) + 306.5 E.

Num.	Gradus	Magn.	BD.	Δα	18	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1 2 3 4 5	0 5 7 9 11	8.7 9.0 9.1 9.2 9.3	9.0 8.8 9.5 9.4 9.5	$ \begin{array}{ccccc} -0^{m} 11^{s} \\ +0 & 47 \\ -0 & 21 \\ -0 & 29 \\ -0 & 20 \end{array} $	-2'.4 -0.3 $+0.1$ $+29.3$ $+28.3$		26 27 28 29 30	28 31 32 33 35	10.2 10.3 10.3 10.4 10.5	10 10	$+0^{m}43^{s}$ $-0 30$ $-0 39$ $+0 28$ $+0 21$	-12'.8 + 2.8 + 0.8 + 8.3 + 6.1	
6 7 8 9	11 13 14 14 15	9.3 9.4 9.4 9.4 9.5	9.1 9.5 9.3 9.4	-1 33 -1 8 -1 32 +1 24 +0 5	-16.0 $+ 8.8$ $+ 2.6$ $+22.7$ $+28.9$	ø	31 32 33 34 35	39 39 41 41 44	10.7 10.7 10.8 10.8 10.9		$ \begin{array}{rrr} -0 & 42 \\ +0 & 43 \\ +0 & 56 \\ -0 & 55 \\ +0 & 52 \end{array} $	$\begin{array}{r} -9.5 \\ +13.6 \\ -0.8 \\ +14.2 \\ -0.8 \end{array}$	
11 12 13 14	15 16 17 18 19	9.5 9.5 9.6 9.6 9.7	9.5 9.7 9.7 9.5	+0 29 -1 26 -0 7 -0 35 +0 37	+10.3 $+2.6$ $+20.5$ -17.7 $+26.5$		36 37 38 39 40	47 47 48 50 50	11.1 11.1 11.1 11.2 11.2	,	$\begin{array}{cccc} -0 & 42 \\ +1 & 4 \\ +0 & 2 \\ -0 & 41 \\ +0 & 22 \end{array}$	+14.5 -12.5 - 5.1 + 6.5 - 0.8	-
16 17 18 19	21 21 22 24 24	9.8 9.8 9.8 9.9	9.5 10 9.6 10	+0 5 -0 50 +0 47 +0 27 +1 5	+ 8.9 -18.5 -23.9 +29.8 -20.3		41 42 43 44 45	50 52 53 55 57	11.2 11.3 11.4 11.5 11.6	,	+0 40 -0 14 +0 22 +0 5 +0 22	-11.0 $+12.7$ -5.0 $+10.0$ -12.5	
2 I 2 2 2 3 2 4 2 5	25 26 27 28 28	10.0 10.0 10.1 10.1 10.1	10 10 10	+0 13 +1 9 -0 32 -0 7 +1 42	+11.5 -22.7 -18.3 $+2.7$ -23.6		46	58	11.6		-0 41	- 0.2	

4377

T Virginis

 $12^{h} 7^{m} 10^{s}$ (1855.0) $-5^{o} 13'.8$

Max. = 2400891^{d} (26. April 1861) + $339^{d}.5$ E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0	1	6.9	$-0^{m}20^{s}$	+19'.1	S. 6 ^M 6.	2 I	62	10.5		$-0^{m} 8^{s}$	+ 1'.7	Sch. 11 ^M
2	4	8.0	8.1	+1 46	+11.3		22	67	10.7		+0 18	- 7.9	,
3	6	8.1	8.0	+1 16	- 7.9		23	69	10.8		-0 11	-14.2	
4	11	8.3	8.5	+0 57	+ 5.9	μ,	24	70	10.9		+0 15	- 6.4	
5	33	9.2	9.1	-0 48	-28.0		25	73	11.0		+0 13	+ 1.7	Sch. 11.12 ^M
6	36	9.4	9.5	+1 40	+22.1	·	26	76	11.1		-0 51	- 2.8	`
7	37	9.4	9.4	+1 51	+20.3		27	77	11.2		+0 24	+15.2	
8	40	9.5	9.5	+0 28	+11.3		28	78	11.2		+0 48	- 6.7	
9	43	9.7	9.5	+1 12	-22.0		29	78	11.2		-0 57	+ 2.6	
10	43	9.7	9.5	+1 39	- 9.4	-	30	79	11.3		+0 2	+ 1.8	Sch. 12 ^M
11	43	9.7	9.5	-1 2	+26.6		31	80	11.3		-0 3	+ 4.4	Sch. 11.12 ^M
12	45	9.8	9.5	-1 7	+29.9		32	81	11.3		-0 51	- 0.1	
13	46	9.8	9.8	+1 15	-19.6		33	82	11.4		+0 12	-14.5	
14	47	9.8	10	+1 4	+ 2.0	:	34	84	11.5		$-0 \ 42$	+11.6	
15	47	9.9	9.5	-0.50	-14.5		35	86	11.6		-0 51	+ 2.9	* ,
16	49	9.9	9.5	-1 41	+29.3		36	92	11.8	ľ	$-0^{\circ} 33$	+ 0.2	
17	50	10.0	10	-0 23	-27.4	¥ .							
18	54	10.2		+0 47	-14.2								
19	56	10.2		+0 39	+ 2.9								
20	58	10.3		+0 25	+ 8.6								

M = 9.0 + 0.044 (G - 27.3).

5761

Z Scorpii

 $15^{h} 57^{m} 29^{s}$ (1855.0) $-21^{o} 20'.1$

Max. = 2405292^d (13. Maii 1873) + 370^d E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Nota e
ı	0	8.0	7.5	$-0^{m}17^{s}$	- 6'.3		2 I	61	10.5		$0^m \ 0^s$	+11'.1	
2	1	8.1	8.0	+0 50	- 7.9	, ÷-	22	65	10.7		+0 37	+15.0	
3	4	8.2	8.2	+1 45	+19.0	8	23	70	10.9		-0 4	- 1.2	Duplex.
4	9	8.4	8.7	-156	-11.1		24	72	11.0		-0 47	+ 8.4	
5	12	8.5	8.8	+1 16	-19.8		25	74	11.1		-0 32	- 8.4	
6	19	8.8	8,8	-1 24	+23.4		26	77	11.2	4	-0 7	+ 6.1	
7	20	8.8	9.1	+0 48	-11.2		27	78	11.2		+0 26	+ 3.6	
8	23	9.0	9.1	+1 0	+26.1	÷	28	79	11.3		-0 3	-10.2	
9	24 -	9.0	9.1	+0 30	+29.3		29	80	11.3		+0 1	- 7.5	
10	24	9.0	9.0	+0 9	+ 9.7		30	81	11.3		+0 45	+13.2	
ŢŢ	30	9.3	9.3	+0 35	-25.5	, , , , , , , , , , , , , , , , , , ,	31	83	11,4		+0 41	+ 5.7	
12	33	9.4	9.3	-0 50	-17.8		32	83	11.4		-0 36	-11.8	
13	36	9.5	9.6	-052	- 0.6		33	85	11.5		+0 22	- 7.8	X ;
14	42	9.7	9.6	-151	- 4.2		34	86	11.6		+0 32	+11.4	
15	44	9.8	9.7	+1 31	-13.3	* " Y - "	35	87	11.6		-0.55	- 9.9	
16	44	9.9	9.5	+0 35	- 2.8	4 - 1	36	88	11.7		0 0	+ 6.6	
17	48	10.0		-0 16	-13.8	. *-	37	94	11.9		-0 50	+ 6.3	
18	52	10.1	9.7	+1 32	+ 6.6		X			var.	+2 33	+11.8	
19	58	10.4		-0 15	+ 1.3	6							
20	59	10.5		-0 21	+ 9.9	San Control							,

M = 9.0 + 0.041 (G - 23.7).

5583

X Librae

 $15^{h} 27^{m} 50^{s}$ (1855.0) $-20^{o} 40'.8$

Max. = 2407183^{d} (17. Jul. 1878) $+ 163^{d}$ 6 E.

Num.	Gradus	Magn.	BD.	Δα	Дδ	Notae	Num.	Gradus	Magn.	BD.	Δα	18	Notae
r			5.8	$+2^{m} 3^{s}$	+ 8'.3	S. 6 ^M 5.	23	42	10.3		$+0^{m}34^{s}$	+ 3'.9	
2	0	8.4	8.4	-1 1	+ 9.0		24	50	10.7		-0 29	+ 7.8	
3	. 5	8.6	8.8	+1 59	-12.9	h	25	51	10.8		+0 4	+11.5	
4	6	8.7	8.8	+1 5	-16.0			5.4	10.9			10.6	
5	11	8.9	9.0	-1 13	+ 5.8		26	54 55	10.9		+0 33	+12.6	TQ.
6	14	9.0	8.8	+0 57	- 6.7		27 28	55 57	10.9		$+0 24 \\ +0 12$	-1.3 + 12.0	- 1
. 7	17	9.2	9.0	-0.6	+26.8			57	11.1		-0.39	+15.4	- 50
8	21.	9.4	9.6	-0.37	-6.0		30	58	11.1		-0.39 $+1.2$	+10.0) X
9	25	9.6	9.5	+1 23	+ 5.5		30	JQ			71.2	±10.0	
10	26	9.6	9.9	-0.23	- 6.7		31	60	11.2		+0.59	- 6.3	
			, ,		,		32	61	11.2		-047	+12.4	0
II	27	9.6	9.8	-0 21	+ 8.4		33	61	11.3		+0 13	+ 9.0	
12	27	9.6	9.4	+1 30	-14.7	·	34	62	11.3		+1 2	- 3.9	
13	3 0	9.8	9.8	+1 47	+19.4	v.	35	63	11.3		-0 31	+ 4.0	·
14	30	9.8	9.9	-0 35	-11.2		36	65	11.4		-0 14	+15.6	
1.5	32	9.9	10	-0 57	-11.8		37	65	11.4	,	-0.5	-10.8	
16	33	9.9	9.5	-1 51	+12.9		38	69	11.6		+0 33	- 9.3	130
17	34	10.0	10	-0 21	+ 4.9		39	69	11.6		+0 55	+12.6	
18	36	10.0	9.9	-0 17	-11.1	,	40	71	11.7		+0 12	- 0.9	
19	36	10.1	9.8	+0 14	+ 2.8		T-						
20	37	10.1	10	-1 51	+14.7		41	72	11.7		+0 27	- 6.9	
	-			- 1		, i	42	73	11.8		-0 18	+14.1	40
2 I	39	10.2		+0 37	- 2.4		43	73	11.8		-0 8	- 6.0	
22	40	10.3	10	+0 29	+15.8		44	74	11.9		-0 4	+5.4	

M = 9.0 + 0.047 (G - 13.4).

5593

W Librae

 $15^{\rm h} 29^{\rm m} 40^{\rm s}$ (1855.0) $-15^{\rm o} 41'.5$

Max. = 2407132^d (27. Maii 1878) + 206^d E.

			1								III.		
Num.	Gradus	Magn.	BD.	Δα	⊿δ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
ı	0	8.5	8,5	$-1^m 51^s$	+12'.3	·	2 I	49	10.3		$+1^{m} 3^{s}$	+10'.5	
2	9	8.8	9.1	-0 18	+26.7		22	52	10.4		+0 47	+ 4.2	
3	17	9.1	9.2	- 0 3	+27.6		23	54	10.5		-0 43	+ 3.6	
4	18	9.2	9.2	+1 28	-26.0	97.	24	54	105		+1 0	+ 9.9	
5	21	9.3	9.2	+0 41	-22.8	163	25	56	10.6		+0 11	+ 6.6	
6	22	9.3	9.4	+1 19	+ 2.1		26	57	10.6		+0 51	- 2.4	
7	25	9.5	9.5	+1 13	+12.9		27	59	10.7		+0 19	+ 3.0	
8	26	9.5	9.5	+0 10	+23.4		28	59	10.7		-0 32	+ 7.8	
9	26	9.5	9.4	+0 20	-22.5		29	61	108		+1 0	- 4.2	
10	29	9.6	9.8	-0 18	+ 3.9		30	63	10.8		+0 5	- 4.8	
11	29	9.6		-0 21	-17.4	. *	31	63	10.8		-0 4	+10.5	
I 2	31	9.7	9.6	+0 48	-19.8	·	32	63	10.8		+0 48	+ 7.5	*
13	32	9.7	9.6	+1 0	+14.7		33	66	11.0		-0 10	-10.6	
14	36	9.8	9.5	-154	-29.3		34	67	11.0		-0 15	+11.7	· .
15	36	9.8		-1 2	- 1.8		35	69	11.1		-0 6	-10.8	- (
16	36	9.8	-	+1 1	- 2.7	_ (36	69	11.1	, Y	-0 9	+13.5	
17	39	9.9		-0 46	+ 4.5		37	71	11.1		+0 14	0.0	
18	42	10.1		-0.59	+6.3		38	71	11.1		-0 10	- 7.2	1
19	42	10.1		+0 42	+ 9.6	*	- 39	77	11.3		+0 11	- 2.1	
20	49	10.3		-0 9	- 8.8		40	81	11.5		-0 4	0.0	

M = 9.3 + 0.037 (G - 20.9).

5037

RR Virginis

 $13^{h} 57^{m} 12^{s}$ (1855.0) $-8^{o} 30'.0$

Max. = 2407483 (13. Maii 1879) + 217 E.

			1				i					-	
Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0		5.0	$+1^m50^s$	- 7'.2	S. 6 ^M 1; 95 Virg.	18	72	10.8		$-0^{m}25^{s}$	+11'.7	
2	7		6.8	+1 25	+18.0	S. 6 . 7; 94 Virg.	19	74	10.9	100	+0 26	+10,5	
3	10		6.5	-0 32	- 3.6	S. 6.7.	20	74	10.9	9.6	+0 4	- 6.9	
4 5	25 30	7.7 8.0	8.0 8.0	+0 18 -0 34	+8.7 -19.8		2 I	77	11.1		+0 2	+14.1	
				4 50			22	80	11.3		-0 48	+10.2	1
6	36	8.4	8.5	-153	-18.6		23	82	11.4		+0 34	-10.2	
7	42	8.8	9.2	-0 13	+26.7		24	84	11.6		+0 20	+2.1	
8	46	9.0	8.8	-0 5	-24.0		25	87	11.7		+0 6	-9.3	*
9 10	50 54	9.3 9.5	9.4 9.5	-1 6 + 0 47	+10.5		26 27	90 90	11.9 12.0		$\begin{bmatrix} -0 & 6 \\ -0 & 9 \end{bmatrix}$	$\begin{vmatrix} -2.1 \\ +11.7 \end{vmatrix}$	
11	57	9.8	10	-158	- 2.7		28	92	12.0		-0 22	+ 2.4	1
12	59	9.9	9.8	+1 53	- 3.9		29	93	12.1		-0 22	- 3.3	
13	60	10.0	9.5	-0 47	+ 8.4		30	96	12.3		-0 17	- 3.3	
14	63	10.2	9.9	+0 59	- 7.6		31	97	12.4		-0 15	- 9.6	1
15	68	10.5		+0 28	+ 2.4		32	97	12.4		-0 8	- 6.6	3
16	68	10.5		+0 28	+13.8		33	100	12.6		+0 18	+ 1.5	
17	72	10.7	2 - 3	-0 3	-15.9								

4492

Y Virginis

 $12^{h} 26^{m} 25^{s}$ (1855.0) $-3^{o} 37.3$

 $Max. = 2408880^{d}$ (10. Mart. 1883) + 218.8 E.

√um.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1	0	8.2	8.0	$+0^{m}18^{s}$	- 1'.4		13	41	10.8	1	$+0^{m}40^{s}$	+14'.0	
2	5	8.5	8.5	-1 39	+16.2		14	44	10.9		+0 58	+17.2	1.5
3	8	8.7	8.7	+1 29	+21.6		15	47	11.1		+0 58	-13.7	
4	16	9.2	9.2	+0 59	- 0.1	3-0						+2	_
5	19	9.4	9.3	+0 57	-26.6		16	47	11.1		-0.51	+16.9	*
	00			2 27	2.0		17	50	11.3		+0 17	-14.0	
6	20	9.5	9,4	-0.35	+ 6.0		18	53	11.5		+0 6	+ 2.3	Ch. 11 ^M
7	24	9.7	9.7	+1 49	+ 2.7		19	59	11.9		-1 1	-9.2	
8	27	9.9		+0 32	- 0.8		20	63	12.1		+0 8	- 7.1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
9	29	10.0	01	+148	+22.7	. (400				
10	31	10.2	10	-1 11	+23.6	× 1	21	69	12.6		- 0 6.	-14.0	
II	34	10.3		-0 31	-10.4	i i							
12	38	10.5		-0 17	- 7.7					× 1			

^{* 21} non invenitur in Charta Paris. 38 vel Clinton. 16.

M = 9.0 + 0.063 (G - 13.0).

5795

W Scorpii

 $16^{h} 3^{m} 18^{s}$ (1855.0) $-19^{o} 45'.3$

Max. = 2406401^{d} (26. Maii 1876) + 222^{d} 3 E.

,													
Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ `	Notae
I	0	8.3	8.3	$-2^{m}11^{s}$	-28',4		2 I	- 88	11.4		$+0^m 4^s$	- 9'.9	Duplex.
2	8	8.6	8.9	-0 49	-15.6		22	89	11.5		-0 46	-10.8	muhier!
3	11	8.7	8.7	-0.51	+ 8.1	,	23	89	11.5		+0 39	+10.2	·
4	34	9.5	9.5	-1 28	+12.9	1 10	24	91	11.5		+0 42	+12.9	
,5	39	9.7	10	-0 32	+ 4.2		25	93	11.6		+0 17	-13.2	
6	42	9.8	9.8	+0 11	- 2.4		26	94	11.6		+0 48		
7	45	9.9	9.7	-0 7	+ 0.9		27	96	11.7		+0.46	+ 5.7	
8	48	10.0	9.5	-1 36	-26.6		28	96	11.7		+0.23	+11.1	
9	52	10.2	9.6	-1 10	-15.9		29	99	11.8		+0.40	- 2.7	
10	57	10.3	. "	+0 58	-14.1		30	102	11.9		-0 36	+10.2 + 0.3	
	. 00	40 5		0 0			J.					7 0.0	
II	63	10.5		-0 9	- 7.5	"	31	103	11.9	,	+0.55	+ 7.8	
12	67	10.7		-0 36	+ 7.2	*	32	103	12.0		+0.52	+ 6.0	
13	68	10.7		+0 29	+13.8	,	33	103	12.0		+0.54	- 0.9	
14	72	10.9		-1 2	- 7.5		34	104	12.0		0 0	+ 8.7	+ Y_ +
15	75	11.0		+0 16	+ 5.4		35	107	12.1		-0 27	- 0.2	.*
16	78	11.1		-0 42	- 4.8		36	107	12.1		+0 55	- 0.3	
17	79	11.1		+0 17	-10.8		37	110	12.2		+0 38	-11.4	
18	81	11.2		-0 27	+ 8.4		38	113	12.3		+0 9	+3.0	
19	85	11.3		+0 46	+ 1.2		ľ				100	. υ.υ	
20	85	11.3		-1 2	-12.3								

7907

U Aquarii

 $21^{\text{h}} 55^{\text{m}} 24^{\text{s}}$ (1855.0) $-17^{\text{o}} 19.5$

Max. = 2406105^{d} (4. Aug. 1875) + 258^{d} E?

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I			6,8	$-0^{m} 54^{s}$	-20'.4	Dupl. Fl. 29.*	16	32	10.5		$-0^{m}11^{s}$	+12'.6	
2 ,	0	8.1	8.0	+0.53	+27.7		17	36	10.8		-0.31	- 3.0	
3	4	8.4	8.5	-1 30	- 8.9		18	36	10.9		-0 50	+ 5.1	,
4	7	8.7	8.8	-051	+26.6		19	40	11.2		-0 1	- 2.1	
5	10	8.9	9.0	+0 2	+27.2	·	20	43	11.4		-0 48	+ 0.2	
6	12	9.1	9.1	-2 3	+24.8	,	2 I	47	11.7		-0 33	- 6.6	4 - 4
7	14	9.2	9.1	-0 34	+11.8	*	22	47	11.7		-0 29	+ 4.9	
8	15	9.3	9.2	+0 11	-27.1		23	48	11.8		+0 48	-0 .3	*
. 9	18	9.5	9.5	+0 13	-16.9		24	49	11.9		-0 53	- 4.0	* .
10	18	9.5	9.3	+0 15	+ 9.9	40	25	56	12.4		+0 15	- 6.2	
ıı.	20	9.7	9.9	+1 4	-14.4		26	61	12.8		+0 14	- 0.6	
12	22	9.8	9.9	+1 7	-10.8		27	66	13.2		+0 26	+ 1.9	
13	24	9.9	9.8	-1 57	+23.1								
14	24	10.0	9.8	+1 43	-13.0								
15	25	10.1	10	+0 25	- 6.4								

^{*} $\boldsymbol{\mathcal{Z}}^{\mathrm{I}}$ 2654 c. g., U. A. 7_{1}^{M} , 7^{M} in ordine A. R.

M = 9.0 + 0.077 (G - 24.2).

5830 et 5831

R & S Scorpii

 $16^{h} 9^{m} 2^{s}$ (1855.0) $-22^{o} 33.5$

R Max. = $2401590^{\circ}.5$ (25. Mart. 1863) + $224^{\circ}.5$ E (Inaequalitas periodica), S Max. = $2392162^{\circ}.4$ (1. Jun. 1837) + $176^{\circ}.7$ E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1 2 3 4 5	0 6 10 12 16	7.9 8.2 8.3 8.4 8.6	7·3 8.6 8.0 8.5 9.0	$ \begin{array}{r} +0^{m}48^{s} \\ -1 & 21 \\ -0 & 25 \\ -0 & 47 \\ +0 & 3 \end{array} $	-21'.6 -14.1 -0.3 -11.2 $+25.5$.CD. 7 ^M .3 " 8.8 " 8.3 " 8.5 " 9.0	26 27 28 29 30	26 68 69 69	10.8 11.0 11.1 11.1 11.1		$+0^{m}30^{s}$ $+0.41$ -0.32 $+0.53$ -0.48	- 1'.6 + 8.1 -13.5 - 1.5 + 8.1	CD. 10 ^M
6 7 8 9	17 21 23 23 23 26	8.7 8.8 8.9 8.9 9.1	8.8 8.9 8.7 9.1 9.2	$ \begin{array}{rrrr} -0 & 14 \\ +1 & 12 \\ -1 & 57 \\ -1 & 21 \\ +1 & 59 \end{array} $	-25.3 $+9.6$ $+7.2$ -11.7 $+28.7$, 8.7 , 9.1 , 8.7 , 9.3 , 9.1	31 32 33 34 35	72 73 73 75 76	11.2 11.2 11.2 11.3 11.4		$ \begin{array}{rrr} -0 & 23 \\ +0 & 14 \\ +0 & 43 \\ +0 & 34 \\ -0 & 14 \end{array} $	-10.2 + 8.7 - 12.3 - 13.6 + 6.3	_n ro
11 12 13 14	28 29 29 30 33	9.2 9.2 9.2 9.3 9.4	9.1 9.2 9.2 9.2 9.2	$ \begin{array}{rrrr} -1 & 41 \\ +0 & 30 \\ +0 & 39 \\ +0 & 37 \\ +0 & 10 \end{array} $	-13.8 +13.0 -21.9 -13.4 + 1.3	" 9.3 " 9.2 " 9.5 " 9.1	36 37 38 39 40	77 78 79 80 81	11.4 11.5 11.5 11.6 11.6		+0 25 $+0 25$ $+0 49$ $-0 10$ $+0 10$	-14.7 -3.9 $+3.3$ -11.4 $+4.9$	
16 17 18 19	34 36 39 40 41	9.5 9.6 9.7 9.7 9.8	9.2 9.3 9.7	+0 23 -0 9 -0 12 -1 10 +1 15	-28.8 -8.4 -16.8 -30.2 $+2.4$	 9.5 9.4 9.5 9.5 9.6 	41 42 43 44 T	84 84 85 89	11.8 11.8 11.8 12.0	Nova	-0 48 +0 39 +0 15 -0 38 -0 37	+ 3.6 - 8.7 +10.2 + 8.0 - 3.2	Cumulus **.
21 22 23 24 25	41 43 45 58 61	9.8 9.9 10.0 10.6 10.7	9.8 9.8	$\begin{array}{cccc} +2 & 1 \\ +0 & 3 \\ -0 & 41 \\ +0 & 56 \\ -0 & 55 \end{array}$	-27.8 $+20.1$ $+5.7$ -9.0 -14.7	 9.5 9.9 9.7 10 9.7 	R S			var. var.	$ \begin{array}{ccc} -0 & 1 \\ +0 & 1 \end{array} $	- 1.5 + 1.5	

^{* 15,} CGC. 22 071 dpl.

^{**} Cumulus: Messier 80, N. G. C. 6093. Nova (1860) +0.29, +2.7 a centro (Sch. II, 84).

6132

R Ophiuchi

 $16^{h} 59^{m} 27^{s}$ (1855.0) $-15^{o} 53'.7$

 ${\rm Max.} = 2\,399\,507^{\rm d}\ (11.\ {\rm Jul.}\ 1857)\,+\,302^{\rm d}.7\ {\rm E}.$

Jum.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	- Δδ	Notae
			2	$+2^{m}37^{s}$	+21'.7	S. 2 ^M 5; η Oph.	24	49	10.7		$-0^{m}24^{s}$	- 5'.7	
2	0	8.0	8.0	$+2 \ 26$	- 4.5	5.2.5, y opm	25	52	10.9		-0 50	-15.0	
	3	8.2	8.0	+2 4	-12.9					,			
3	10	8.5	8.9	-0.52	-20.7		26	52	10.9		+0 6	- 4.5	Ch. 10 ^M 5.
4	15	8.8	9.0	-0 39	-17.7		27	54	11.0		-0.47	+15.9	
5	10		9.0				28	54	11.0		+0 2	- 6.0	Ch. 10 ^M 5 (±)
6	15	8.8	8.8	+1 37	+15.6		29	57	11.1		-0 22	- 6.0	
7	18	9.0	9.0	+0 11	+19.4		30	58	11.2	,	-0 51	-12.7	
8	20	9.1	9:3	+0 32	-27.0	*	31	62	11.4		-0 1	+ 3.6	
9	23	9.2	9.5	-1 9	+ 6.3		32	63	11.5		+0 40	- 3.3	Cumulus.
10	24	9.3	9.4	-0 43	- 4.5		11	64	11.5		+1 4	+ 6.6	- Outmands.
	25	9.4	١,,	+1 48	+ 8.7		33	67	11.7		+0 22	- 5.7	
11	27	9.5	9.1	-1 9	-17.4	'	34	69	11.8		-0 24	+ 3.3	4
12	28	9.5	9.5	-0.57	+23.1		35	00			-0 24	+ 0.0	
13		9.5		-0.37	-27.3		36	72	12.0		-0 14	- 0.3	. "
14	31		9.5				37	73	12.0		+0 26	-12.0	
15	33	9.8	9.7	-0 47	-24.3		. 38	77	12.2	1	+0 51	-11.5	
16	33	9.8	ļ	-1 0	+22.8	,	39	77	12.2		-0 11	- 5.4	
17	34	9,9	10	+0 22	+27.0		40	78	12.3		+0 5	- 0.6	
18	35	9.9	9.5	+1 36	+28.8			, 01	12.4		10.40	11.77	
19	36	10.0	9.5	+1 15	- 2.1		41	81			+0 46	-11.7	
20	40	10.2		-0 54	+14.7		42	81	12.5		-0 12	-10.2	
							43	86	12.7		+0 29	- 3.9	
2 I	41	10.3	10	-0 24	+15.2		44	88	12.9		+0 28	+ 0.3	
22	43	10.4		-0 56	- 1.0		45	94	13.2		-0 2	+ 7.2	
23	46	10.6		-0 36	+ 5.8		1	1		b l	1	1	l ·

M = 9.4 + 0.055 (G - 25.4).

7733

Y Capricorni

 $21^{h} 26^{m} 27^{s}$ (1855.0) $-14^{o} 36'.9$

Max. = 2409790^{d} (5. Sept. 1885) + 206^{d} E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
	0	7.9	8.0	-0^m 6	+29'.3			70	0.0		$-1^{m}43^{s}$	10/1	
r							23	79	9.9	9.3		-13'.1	
2	29	8.6	8.8	+0 21	+ 4.5	*	24	89	10.2	10	+1 23	-24.8	
3	34	8.8	8.7	+2 2	- 0.3		25	87	10.2		-0 43	- 3.6	
4	40	8.9	9.1	-0 36	+27.5		26	90	10.3		+0.45	-12.2	
5	42	9.0	8,8	-1 43	-29.3		27	93	10.3		-1 0	+11.7	
6	43	9.0	9.0	+1 48	+ 6.6		28	94	10.4		+0 6	- 6.9	
7	45	9.1	9.3	-1 16	+26.6		29	95	10.4		-0 29	+ 1.5	
8	46	9.1	9.0	-2 0	-16.1		30	96	10.4		-0 57	-12.8	
9	48	9.1	9.3	+0 4	+20.3		_						
10	52	9.2	9.5	+1 21	- 5.1	*	31	96	10.4		-0 16	- 0.3	
						,	32	96	10.4		-0 32	+ 1.8	
11	53	9.3	9.3	-0 20	-22.7		33	96	10.4		-0 35	+ 6.0	
1,2	54	9.3	9.3	-0 37	+15.0		34	98	10.5		-0 59	-11.3	
13	56	9.3	9.4	+1 42	+17.1		35	98	10.5		+0 51	- 1.2	0
14	59	9.4	9.3	+0 42	- 3.9		36	98	10.5		-0 38	+ 6.9	
15	60	9.4	9.3	+0 22	- 3.0		37	99	10.5		-0 15	+ 0.6	
16	62	9.5	9.4	-1 56	+ 9.3	•	38	101	10.5		-0 32	+ 5.4	
17	68	9.7	9.4	$-0 \ 40$	- 6.0	,	39	104	10.6		-0.8	+10.8	4
18	70	9.7	9.4	-0.20	- 8.1		40	107	10.7		+0 11	+7.5	
19	72	9.8	9.8	$-1 \ 31$	-12.5		40					7 1.0	
20	72	9.8	9.5	-0.19	+2.7		41	112	10.8		+0 21	- 1.2	
20	12	0.0	9.7	-0 10	T 4.1	41	42	113	10.8		-0 12	+ 9.3	
2 I	73	9.8		-0 29	+15.6								·
22	77	9.9	10	-1 23	+10.8								

M = 9.3 + 0.026 (G - 54.3).

8230

S Aquarii

 $22^{h} 49^{m} 20^{s}$ (1855.0) $-21^{o} 7.0$

Max. \Rightarrow 2400395^d (16. Dec. 1859) + 279^d.7 E (Inaequalitas periodica).

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0		6.3	$-1^m 36^s$	+12'.3	S. 6 ^M .7	16	38	10.0	9.7	$-0^m 51^s$	+15'.6	
2	9	7.9	7.5	+0 31	+ 3.9	.,	17	38	10.0	10	+0 34	-11.1	<u>.</u>
3	15	8.3	8.3	+0 23	-19.8		18	41	10.2	10	+1 6	-29.1	
4	17	8.5	8.5	-1 12	-11.4	,	19	46	10.5		+0 37	+12.0	
5	21	8.8	8.9	+1 48	-33.0		20	49	10.8		-0 23	-12.6	
6	27	9.2	9.3	-1 38	-26.1		2 I	50	10.9		-0 21	-10.8	
7	30	9.4	9.3	+2 15	-16.5	4	22	55	11.2		-0 30	+ 9.6	1
8	30	9.4	9.4	-1 8	- 0.6		23	58	11.5		-0 1	- 8.1	
9	31	9.5	9,6	+0.55	-15.0		24	61	11.7		-0 17	- 0.3	
10	32	9.6	9.4	-1 19	+ 2.4		25	62	11.7		0 0	+ 4.5	
11	32	9.6	9.7	+0 9	- 5.4	T.	26	64	11.9		+0 3	+ 4.8	
12	33	9.7	9.3	+1 47	-18.0		27	71	12.4		-0 44	- 2.4	
13	34	9.7	9.6	-1 15	-24.6								
14	34	9.7		-0 36	+15.0			-					
15	37	9.9	9.6	+1 34	-29.4								

M = 9.0 + 0.073 (G - 24.3).

114

S Ceti

 $0^h 16^m 41^s$ (1855.0) $-10^o 7.9$

Max. = 2405165^{d} (6. Jan. 1873) + 320^{d} 2 E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	. ⊿δ	Notae
ı	0	7.6	7.2	$+3^{m} 5^{s}$	-32'.8		18	37	10.2		$-0^{m} 7^{s}$	+14'.8	
2	3	7.9	7.8	-1 17	+ 6.2		19	37	10.3	10	-0 15	+23.1	. 3 4
3	5	8.0	8,0	-1 21	-17.8		20	41	10.5	h	-0 9	-24.6	
4 5	9 15	8.3 8.7	8. ₅ 8. ₇	-1 15 $-2 54$	+ 3.0 + 5.7	·	21	44	10.7	9.8	-0 9	-25.6	*
							22	46	10.9		+0 3	+14.4	
6	19	9.0	9.3	+0 15	+12.7		23	46	10.9		0 0	- 3.4	Ch. 12 ^M (?)
7	20	9.0	9.2	+1 51	-13.8		24	50	11.2		-1 2	- 2.2	
8	23	9.3	9.4	-0 16	- 8.1		25	54	11.5		+0 1	+11.1	
9 10	27 30	9.5 9.8	9.5 9.2	-0 35 $-1 16$	+23.2 -19.1		26 27	57 60	11.7 11.9		+0 36	+10.9	*
II	32	9.9	ار	+1 59	+ 9.5		28	64	12.2	*	+0 13	+10.2	·
12	32	9.9	9.5	+2 2	+ 9.7		29	66	12.3		-0 35	+ 3.6	
13	34	10.1	10	+0 21	+10.2	a.	30	69	12.5		-0 55	-13.5	
14	35	10.1	9.8	+1 30	+ 5.4			7 0					
15	35	10.1	h i	-0 10	+20.4	in .	31	72	12.7		+0 33	+ 7.5	
	0.5		9.4				32	73	12.8		-0 5	- 2.4	3
16	35	10.1)	-0 9	+19.8	. YI	33	77	13.1		-0 5	- 1.2	
17	37	10.2	10	-0 5	+ 8.1	, 119	34	83	13.5		+0 3	-10.2	

Ch. 12^{M} , -% + 6' invisib.

M = 8.9 + 0.071 (G - 17.8).

1986

T Orionis

 $5^{h} 28^{m} 43^{s}$ (1855.0) $-5^{o} 34'.5$

Variatio irregularis.

Num.	Gradus*	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1 2 3 4 5	0	7.7	3 4.° 5.° 6.7 7.8	$-0^{m}24^{s}$ $-0 34$ $-0 28$ $+1 38$ $-0 24$	$ \begin{array}{r} -26'.4 \\ + 5.2 \\ + 3.6 \\ -27.9 \\ + 3.6 \end{array} $	S. 2^{M} , $t = \sum 75^{2}$ S. 5. I, $\theta^{1} = \sum 748^{*}$ S. 5. 6, $\theta^{2} = \sum^{T} 16$ S. 6. 7	31 32 33 34 35	20 20 20 20 20 21	9.5 9.5 9.5 9.6 9.6	9.0 9.5 9.8 9.4 9.5	$ \begin{array}{cccc} -0^m 17^s \\ -0 & 24 \\ -1 & 1 \\ -1 & 55 \\ -0 & 19 \end{array} $	+23'.1 -22.8 $+9.6$ -10.2 -4.5	Bd. 9 ^M .7 N. 752 " 9.5 " 711 " 10.0 " 479 " 9.6 " 247 " 10.8 " 746
6 7 8 9	2 3 4 7 7	7.8 8.0 8.1 8.3 8.3	7.8 9.0 8.2 8.3 8.3	+0 25 -0 20 +0 4 -0 45 -0 38	$ \begin{array}{r} -10.2 \\ +12.9 \\ -9.6 \\ +16.8 \\ -27.6 \end{array} $	Bd.7 ^{M.8} N.905** " 9.0 " 734 " 8.6 " 843 " 9.0 " 554 " 8.7 " 590	36 37 38 39 40	22 22 22 23 23	9.7 9.8 9.8 9.8 9.8	9.5 9.5 10 9.5	-1 9 -1 17 -0 30 -1 36 -0 22	+21.6 +25.5 + 6.9 - 8.4 + 2.1	" 9.4 " 438 " 9.5 " 398 " 9.8 " 669 " 10.2 " 315 " 10.5 " 724
11 12 13 14	8 10 11 12 12	8.4 8.6 8.7 8.8 8.8	8.3 9.0 9.0 9.0 9.0	-1 3 -0 19 +0 40 -0 41 -0 36	$ \begin{array}{r} -5.7 \\ +3.3 \\ -17.7 \\ +0.6 \\ -21.6 \end{array} $	" 8.7 " 467 " 10.0 " 741 " 8.6 " 935 " 9.4 " 570 " 8.6 " 613	41 42 43 44 45	24 25 26 26 27	9.8 10.0 10.1 10.1 10.2	9.5 9.5 10 9.5	$ \begin{array}{rrr} -0 & 59 \\ +0 & 49 \\ -1 & 17 \\ -0 & 15 \\ +0 & 48 \end{array} $	$ \begin{array}{r} -4.8 \\ +8.7 \\ -17.4 \\ +16.8 \\ 0.0 \end{array} $	" 9.9 " 497 " 10.2 " 956 " 9.3 " 401 " 10.0 " 757 " 10.5 " 955
16 17 18 19	13 14 14 14 15	8 9 9.0 9.0 9.0 9.1	9.1 9.0 9.1 9.0 9.3	$ \begin{array}{r} -1 & 55 \\ +0 & 48 \\ -0 & 55 \\ +0 & 37 \\ -1 & 15 \end{array} $	$ \begin{array}{r} -8.1 \\ +21.3 \\ -2.1 \\ +4.2 \\ -12.9 \end{array} $	9.3 , 246 7 9.3 , 953 7 9.6 , 505 7 10.0 , 924 7 9.1 , 410	46 47 48 49 50	27 72 28 29 29	10.2 10.2 10.3 10.4 10.4	9.5 10 10 9.5 9.7	$\begin{array}{cccc} +1 & 26 \\ -2 & 0 \\ -0 & 30 \\ -0 & 48 \\ +1 & 18 \end{array}$	+26.7 -17.4 +19.5 +23.1 +18.3	" 10.0 " 1031 " 9.4 " 235 " 9.4 " 667 " 10.3 " 534 " 10.8 " 1015
21 22 23 24 25	15 15 16 17 18	9.1 9.1 9.2 9.3 9.3	9.3 9.0 9.1 9.1 9.5	$ \begin{array}{c cccc} +0 & 8 \\ -0 & 42 \\ -1 & 16 \\ +1 & 7 \\ -1 & 36 \end{array} $	+ 6.3 -23.7 -14.4 -23.7 +17.1	, 9.9 , 848 , 9.1 , 565 , 9.4 , 404 , 9.2 , 997 , 10.7 , 311	51 52 53 54 55	29 30 30 30 30	10.4 10.5 10.5 10.5 10.5	10	$\begin{array}{c} +1 & 45 \\ +0 & 58 \\ -0 & 50 \\ -0 & 50 \\ -0 & 8 \end{array}$	$ \begin{array}{r} -24.6 \\ -0.3 \\ +3.3 \\ +23.7 \\ +8.7 \end{array} $	" 9.8 " 1078 " 10.6 " 974 " 10.1 " 523 " 10.2 " 521 " 10.8 " 781
26 27 28 29 30	18 18 19 19 19	9.3 9.3 9.4 9.4 9.5	8.8 9.3 9.5 9.0 9.0	+0 20 -0 23 -1 39 -0 33 +1 49	+25.2 - 19.8 + 5.7 + 25.0 + 23.7	9.2 , 888 9.4 , 714 9.9 , 303 9.3 , 638 10.4 , 1082	58 59	31 32 33 33 33	10.5 10.7 10.8 10.8 10.8		$\begin{vmatrix} +0 & 41 \\ 0 & 0 \\ -0 & 34 \\ -0 & 55 \\ -0 & 9 \end{vmatrix}$	$ \begin{array}{r} + 5.4 \\ -12.0 \\ + 6.9 \\ + 5.4 \\ + 0.3 \end{array} $	" 10.8 " 938 " 10.7 " 823 " 10.5 " 635 " 11.3 " 506 " 10.8 " 784

^{*} θ^4 = Trapezium: 7.0^{M} , 8.0^{M} , 4.7, 6.3^{M} , secundum Σ , in ordine A.R.

^{**} Bd. significat Catalogum Georgii Ph. Bond (H. C. O. Vol. V. pp. 70—94). Vide etiam Catalogum 155 stellarum Ottonis Struve (Mém. de Petersb. t. V, 1862, pp. 118—122). Ambo Catalogi illustrantur chartis describentibus regionem circa trapezium. De stellis quae ibi probabiliter variabiles notantur vide notam in III. Catalogo D. Chandler. T Orionis est Bond 822 I'' I'' et Herschel 133. De cujus variabilitate confer H. C. O. Vol. V. p. 137 sqq.

Comparationem harum Magn. cum magn. photographicis vide in H. C. O. Vol. XXXII. pp. 39-42, et Potsdam Astr. Obs. Vol. XI. pp. 60-67.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn,	BD.	Δα	18	Notae
61 62 63 64 65 66 67 68	34 35 35 37 37 37 38 41	10.9 10.9 10.9 11.1 11.1 11.2 11.3 11.5	_	$+0^{m}40^{s}$ $-0 8$ $+0 16$ $-0 46$ $+0 9$ $-0 34$ $-0 24$ $+0 19$	-14'.4 +15.0 -13.5 +14.1 -11.4 -10.8 +13.5 + 0.9	Bd. 10 ^M 2 N.937 "10.8 "785 "10.5 "881 "10.1 "551 "11.0 "855 "11.1 "639 "11.5 "700 "11.3 "889	71 72 73 74	42 43 46 49 60 64 invis.	11.7 11.7 12.0 12.3 13.3 13.7		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	+12'.0 - 2.7 - 2.4 -11.4 -14.4 - 9.6 - 0.3	Bd. 11 ^M 9 N. 808 " 10.8 " 750 " 10.3 " 690 " 11.8 " 599 " 12.3 " 658 " 11.5 " 583 " 13.9 " 832

M = 9.1 + 0.094 (6 - 15.3).

6905

R Sagittarii

 $19^{h} 8^{m} 11^{s}$ (1855.0) $-19^{0} 33'.5$

Max. = 2402801^{4} (18. Jul. 1866) + 268^{4} 7 E + 20^{4} sin (10^{9} E + 330^{9}).

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1			5.3	$+0^{m}58^{s}$	+21'.3	$S.5^{M}_{.}3, d=Fl.43$	36	45	9.9	9.6	$-0^{m}36^{s}$	- 2'.7	
2	0	8.0	8.0	+1 31	+26.3	∑ ^I 2261 c. g.	37	47	9.9		+0 55	+ 4.5	
3	4	8.1	8,0	+3 18	- 1.2		38	49	10.0		+0 34	-18.7	
4	7	8.3	7.3	-1 17	-29.0		39	50	10.1		+0 36	+ 8.4	Duplex.
5	9	8.4	8.5	+1 39	- 3.7		40	51	10.1	9.5	+1 27	-27.5	· · · · ·
6	13	8.5	8.7	-1 56	+20.4		41	53	10.2	9.8	-0 45	+ 8.7	
7	16	8.6	9.0	+0 50	+14.7		42	53	10.2		-0 35	-11.4	0 4 3
8	18	8.7	8.5	+1 23	+ 9.8		43	53	10.2		-0 34	+14.8	
9	19	8.8	8.8	+0 29	+19.2		44	55	10.3	İ	-0 4	+ 1.5	Sch. 10 ^M 8
10	21	- 8.8	9.1	+0 43	+ 6.3		45	56	10.3	9.7	-0 33	-21.6	
11	25	9.0	9.2	+1 50	+13.9		46	57	10.3	9.9	+0 22	-24.7	8
12	25	9.0	9.0	+1 14	- 7.0	,	47	57	10.4	1	+0 50	+ 3.3	
13	28	9.1	8.8	+1 4	-19.9		48	58	10.4		+0.52	+10.5	
14	28	9.2	9.3	-1 11	- 3.6		49	59	10.5	:	-0 53	+ 5.1	, "
15	29	9.2	9.3	+0 16	+15.0		50	60	10.5		-0 20	- 4.8	
16	29	9.2	9.4	+0 40	+15.6	C.	51	62	10.6		+0 12	+ 4.8	- 30
17	32	9.3	9.2	+0.48	-26.3	- (1	52	63	10.6		+0 23	$+13.8^{\circ}$	
18	33	9.4	9-3	-1 11	- 7.8		53	64	10.7		-0 34	+13.5	
19	34	9.4	9.4	+0 37	+11.2		54	67	10.8		+0.31	+10.8	
20	36	9.5	9.7	+1 5	+ 2.4		55	68	10.8		-0.38	+ 3.9	
2 I	37	9.5	9.3	+0 11	+ 5.4		56	71	10.9	İ	+0 49	+ 8.4	
22	38	9.5	9.6	+1 42	+14.5		57	72	11.0		-0 11	+ 6.6	-
23	38	9.6	9.8	-0 22	+24.0		58	73	11.0	-	+0 8	+ 7.0	
24	38	9.6	9.4	+0 24	-0.6		59	75	11.1		-0 12	+ 0.9	
25	40	9.6	9.5	-1 25	- 2.7	100	60	79	11.3		+0 2	+ 4.9	
26	41	9.7	9.6	-0 8	-13.8	0.3	61	80	11.3		-0 16	+11.7	*
27	42	9.7	9.9	-0 3	- 2.9	160	62	81	11.4		+0 15	-10.9	
28	43	9.8	9.8	+1 5	+13.4	v &-	63	84	11.5		-0 4	+ 7.0	
29	43	9.8	9.8	+1 10	+18.6	*	64	89	11.7		-0 14	0 0	
30	44	9.8	9.5	+1 53	-25.2	4	65	91	11.8		-0 1	-0 3	Sch. IIM3
31	44	9.8	9.5	0, 0	+ 5.1		66	93	11.9		-0 8	-12.3	
32	44	9,8	9.5	-1 16	+ 6.9		67	94	11.9		+0 6	- 3.9	
33	44	9.8	9.6	-0 16	-14.4	· · · · · · · · · · · · · · · · · · ·	68	95	11.9	1	+0.30	+ 1.5	
34	44	9.8	9.5	-1 2	- 6.3		69	96	12.0	1	+0 5	-13.0	
35	45	9.8	10	+1 17	+ 9.6]	7.0	97	12.0		+0.25	- 9.0	

Num.	Gradus	Magn.	BD.	Δα	48	Notae	Num,	Gradus	Magn.	BD.	Δα	18	Notae
71 72 73 74 75 76 77 78	97 97 98 98 99 99 100 100	12.0 12.0 12.1 12.1 12.1 12.1 12.2 12.2		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	- 2.7 -12.9 - 5.1 + 1.8 -14.1 - 4.0 - 3.7 0.0		79 80 81 82 83 84 S	100 101 104 105 106 113	12.2 12.2 12.3 12.4 12.4 12.7	var.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-11'.7 - 3.0 - 3.9 - 12.0 - 3.0 - 2.8 + 16.4	

M = 9.0 + 0.042 (G - 24.8).

5430

T Librae

 $15^{\rm h} 2^{\rm m} 28^{\rm s}$ (1855.0) $-19^{\rm o} 27.8$

Max. = 2407105^{d} (30. Apr. 1878) + 238^{d} E.

Num.	Gradus	Magn.	BD.	Δα	⊿δ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
ı			4.5	$+1^{m}29^{s}$	+13'.4	∫S. 4 ^M 9,	18	37	10.3	10	$+0^{m} 9^{s}$	- 9'.7	
2	0	7.4	7.3	-0.56	-30.1	$l\iota = Hh 465$	19	42	10.6		+0 15	+ 5.0	
3	12	8.3	9.0	-1 44	-22.6		20	42	10.7	10	+0 7	- 0.7	
4	19	8.8	9.2	-0 23	-10.0								^
5	22	9.1	9.4	-0 39	+ 8.3		2 I	47	11.0		-0 28	+11.6	
	00						22	48	11.1		-0 29	- 4.3	
6	23	9.2	9.2	+1 56	+11.3		23	50	11.3		-1 0	+ 6.9	
7	24	9.3	9.5	-1 32	+14.9		24	53	11.5		+0 18	+ 9.2	
. 8	26	9.4	9.5	-1 49	-11.2		25	55	11.7		-0 50	+11.3	
9	27	9.5	9.8	+0 32	+10.2				440				
ΙÖ	29	9.6	9.5	-0 29	-6.7		26	57	11.8		-0 9	-14.2	
	00	0.0		- Tan		0	27	59	12.0		-0 3	-13.3	
11	29	9.6	9.5	+150	- 1.9	Ÿ	28	61	12.2		-0.54	+ 4.4	(0)
12	30	9.7	9.5	+0 27	+ 9.5		29	62	12.2		+0 7	-10.3	
13	30	9.7	9.0	+1 33	.+13.1		30	68	12.7		-0 17	+ 9.8	
14	32	9.9	10	-1 9	-25.0			00	400		• •		36 (1)
15	32	9.9	9.4	+1 25	-18.5		31	69	12.8		-0 3	- 0.1	Ch. 13 ^M (\pm)
	0.5						32	71	12.9		-0 56	- 6.4	
16	35	10.1	9.9	-0 51	-24.7								
17	37	10.3		-0 45	+ 9.9								

Ch. $13^{M}_{.}5, -1^{s}, +1'$ invisib.

M = 9.5 + 0.078 (G - 27.1).

S Orionis

 $5^{h} 21^{m} 51^{s}$ (1855.0) $-4^{o} 48.7$

Max. = 2404095^{d} (1. Febr. 1870) + 413^{d} E.

	l		Ī	<u> </u>	1	1	11	1		,		1	
Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
ı	0	7.7	7.5	$-0^m 27^s$	- 0'.3		31	47	10.2	9.5	$+1^{m}25^{s}$	-30'.3	
2	2	7.8	8.0	+1 51	+26.4	h 2270	32	47	10.2	9.5	+1 27	-19.5	
3	9	8.2	8.5	-1 21	-34.5	900	33	50	10.4	10	-0 1	+ 1.0	
4	12	8.4	8.7	+2 5	- 6.6		34	52	10.5		-0 29	+ 8.1	
5	13	8.4	8.6	-2 3	+23.4		35	53	10.6		+0 15	- 0.9	99
6	16	8.6	8.5	+1 11	-30.6		36	- 56	10.7		+0 27	- 7.5	
7	19	8.7	9.5	-0.25	+30.6		37	59	10.9		+0 3	+ 3.3	•
8	20	8.8	9.0	-1.45	+15.3		38	60	10.9		-0 12	- 9.3	<i></i>
, 9	21	8 9	9.2	-0 27	+29.4		39	60	11.0		-0.55	+12.6	
10	22	8.9	9.0	-1 41	+24.6)	40	60	11.0		+0 58	- 4.2	
11	23	9.0	9.1	-1 50	-17.4		41	62	11.1		-0.55	+ 4.5	
I 2	27	9.2	9.5	-1 30	-23.4		42	62	11.1		-0 15	+ 8.4	
13	28	9.2	9.1	+0.55	-14.4		43	62	11.1		+0 37	+ 9.0	
14	28	9.2	9.1	+159	+6.0		44	63	11.1		-0 30	-12.6	
15	. 28	9.2	9.5	-0 37	+30.0	÷.	45	65	11.2		-1 0	+ 2.1	
16	30	9.3	9-5	-0 28	-23.4		46	66	11 3		-0 22	- 4.2	4 ():
17_	31	9.4	9,1	+0 12	- 6.6		47	67	11.3	*	+0 42	- 5.4	
18	32	9.4	9.4	-0 39	-21.9	* '	48	68	11.4		+0 10	+13.5	
19	33	9.5	9.3	-1 51	-15.9		49	68	11.4	14	-046	- 1.5	
20	33	9.5	9.4	-0 48	+21.3	(1)	50	69	11.4		-0 34	+ 7.2	ŧ,
2 I	34	9.6	9.5	+0 15	+ 6.3	· ·	5 I	70	11.5		-0 7	-13.5	
2 2	37	9.7	9.4	-157	-13.5		52	70	11.5		+0 5	+ 6.0	
23	38	9.8	10	$-0 \ 40$	-18.6	*	53	71	11.5		+0 30	- 3.0	·
24	- 38	9.8	9.4	-0 2	- 0.4	*	54	73	11.6		0 0	+ 7.2	
25	41	9.9	9.7	-0 54	+ 9.3		55	73	11.7		-0 29	+ 3.0	
26	42	10.0	9.5	+1 0	0.0		56	74	11.7		+0 24	- 3.3	
27	44	10.1	9-5	+0 36	-24.6	,	57	75	11.7		+0 3	- 2.4	
28	44	10.1	10	+1 32	- 2.7		58	78	11.9		-0 23	+ 2.4	
29	45	10.1	9.5	+1 57	-15.9							3	
30	45	10.2		-0 49	+11.1								

^{*} Per errorem notatur S. in C. G. Argent. 6341.

7252

W Capricorni

 $20^{\rm h} 5^{\rm m} 57^{\rm s}$ (1855.0) — $22^{\rm o} 24'.8$

 $\mbox{Max.} = 2\,404\,985^d\ (10.\ \mbox{Jul.}\ 1872) \,+\, 207^d.7 \, \mbox{E}.$

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
ı	0	7.9	7.5	$-0^{m}11^{s}$	- 3'.7	CD. 7 ^M 8	21	48	10.0		$+0^m 40^s$	+ 8'.6	*
2	10	8.4	8.5	-1 12	- 4.5	" 8.5	22	50	10.1	10	+1 48	-27.0	CD. 9 ^M 8
3	14	8.5	8.7	+0 4	+25.4		23	50	10.1		-0 18	-15.1	•
4	22	8.9	9.1	-1 18	+22.7		24	51	10.1		-1 12	- 7.9	, 10
5	24	9.0	9.4	+0 5	- 3.6	n 9·3	25	54	10.3	9.8	+0 56	-10.5	n io
6	26	9.0	9.1	+1 51	+ 9.8	" 9.1	26	55	10.3		-0 6	- 9.1	, 10
7	27	9.1	9.2	-1 2	- 9.4	"9.2	27	59	10.5		+0 20	- 0.1	, 10
8.	30	9.2	9.0	-1 52	-28.0	"9.2	28	63	10.6		+0 45	- 5.8	
9	30	9.2	9.4	-0 15	-15.1	" 9.6	29	65	10.7		+0 46	+ 2.0	, 10
10	35	9.4	9.4	-0 25	-24.9	" 9.8	30	65	10.7	9.8	-1 38	-24.1	, 10
ŢΤ	35	9.4	9.5	+1 7	- 7.9	" 9.6	31	67	10.8		, +0 36	+ 5.3	
12	38	9.6	10	-0 23	+26.0		32	70	10.9		-0 28	+ 7.7	W.
13	41	9.7		+0 6	-13.0	" 9.6	33	73	11.1		+0 2	-16.3	
14	41	9.7	9.8	-1 15	+ 8.0	, 9.7	34	74	11.1	ļ	+0 26	- 2.8	
15	44	9.8		+0 38	+ 8.3	*	35	77	11.2		+0 8	- 0.1	
16	44	9.8	9.5	-0 18	-24.0	" 9.8	36	80	11.4	•	-0 21	- 3.7	
17	46	9.9		+1 0	-13.6	" 9.9	37	84	11.5		0 0	- 8.5	
18	46	9.9	9.5	-0 37	-15.2	, 9.8							
19	46	9.9	9.8	+1 36	+24.8								
20	48	10.0		-0 51	-14.8	" 9.8						1 3	

^{* (15} et 21) == BD. $-22^{\circ}.5375$, $9.8^{\circ}.5$

M = 9.0 + 0.043 (G - 24.8).

Z Sagittarii

 $19^{h} 11^{m} 7^{s}$ (1855.0) $-21^{o} 11'.2$

 $Max. = 2410865^d$ (15. Aug. 1888) + 452^d E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
ı	0	8.4	8.3	$-1^m 21^s$	+29'.5	. 1	38	67	10.8		$+0^{m}43^{s}$	+ 9'.0	
2	3	8.5	8.3	-0 27	+ 2.0		39	68	10.8		+0 6	- 1.4	
3	7	8.6	8.5	-0 11	-15.4		40	69	10.8		-0 37	+ 5.0	
4	11	8.8	8.8	+0.45	-20.3	são .		20	100				
5	16	9.0	9.0	+1 18	+13.8		41	69	10.8		+0 38	+ 9.9	
6	19	9.1	9.2	-0 13	+30.2	- 1	42	69	10.9		-0 36	- 2.6	1.95
	20	9.1	'	+0.7			43	71	10.9		-0 36	+ 9.1	
8	20	9.1	9.3	-1 54	+18.2		44	72	11.0		+0 19	+12.1	
	23	9.2	9.1	+0 7	-14.4		45	72	11.0		+0 12	- 5.9	1 1
9	24	9.3	9.5		-13.2		46	73	11.0		-0 47	- 7.7	· ·
10	24	9.5	9.7	+1 - 35	+27.3		47	74	11.0		-0 21	+ · 3.8	- ()
II.	24	9.3	9.5	+0 7	-23.2	-	48	74	11.0		+0 17	+ 3.1	* * 1
I 2	26	9,3	9.1	-0 56	-29.2		49	75	11.1		+0 30	- 3.5	,
13	26	9.3	9.5	-0 37	+13.8		50	75	11.1		-0 13	+13.3	ar -
14	30	9.5	9.5	+0 57	+ 9.1	-				-1			
15	30	9.5	9.4	+0.54	- 2.4		51	75	11.1		-0 13	- 6.2	
		•				4	52	76	11.1		+0 2	- 0.6	
16	33	9.6	9.7	-1 45	+26.1		53	78	11.2		-0 3	+ 6.1	. 6
17	34	9.6	9.6	+1 40	-15.0		54	78	11.2		+0 30	+ 8.8	
18	34	* 9.6	9.5	-1 38	-27.4	~ .	55	79	11.2	⊞	+0 2	+12.4	, R.
19	37	9.7	9.4	-1 48	-12.9	4.3	56	79	11.2		0 0	- 4.4	- 90
20	38	9.7	9.6	+1 31	-19.4		57	80	11.2		-0 7	- 4.4 - 7.7	
2 I	39	9.8		+1 37	- 1.7		58	81	11.3		-0 48		4
22	39	9.8	10	+1 25	+26.4			81	11.3		+0 5	+ 5.5	
23	40	9.8	9.9	+1 40	-24.0		59 60	82	11.3		+0 3 $+0$ 44	- 0.3	
24	42	9.9	9.9	-0 48	+16.6		"	02	11.0		-1-U 444 ·	-10.4	
25	43	9.9	9.5	-0 20	-5.3	*	6 r	83	11.4		-0 24	+13.9	
-5			9.5	0 20	- 0.0		62	83	11.4		+0 21	+ 1.9	
26	47	10.1	10	+1 15	-2.6	*	63	83	11.4		-0 4	- 3.2	
27	49	10.1	9.9	-0 45	- 1.6		64	85	11.4		+0 19	+ 7.9	3
28	50	10.2	9.8	+1 31	-15.8		65	85	11.4		+0 38	- 2.6	** * * * * * * * * * * * * * * * * * * *
29	54	10.3		055	- 5.7			0.0	44.5				⊕,
30	60	10.5		-0 17	- 2.0		66	86	11.5		+0 34	-12.2	
	01	100		0 50			67	86	11.5	İ	-0 19	- 4.1	
31	61	10.6		-0 57	+ 2.8		68	88	11.5		-0 25	+ 5.8	- 9
32	62	10.6		+0 29	-12.5	,	69	88	11,5	4	+0 5	+13.6	
33	62	10.6		+0 13	- 0.4	, (70	90	11.6		-0 9	+ 3.1	
34	63	10.6		0 0	- 0.5		71	92	11.7		-0 36	+14.5	
35	64	10.7		+0 27	+5.5		()	"		9.5		1 T.T.	ž.
36	66	10.7		-0 49	- 9.9						117 -	-	
37	66	10.8		-0.59	+12.7	,,							

8597

V Ceti

 $23^{h} 50^{m} 29^{s}$ (1855.0) $-9^{o} 46'.1$

Max. = 2407590^{d} (28. Aug. 1879) + 261^{d} E.

									,				
Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn,	BD.	⊿ α .	Δδ	Notae
ı	0	7.6	8.0	$-2^{m}10^{s}$	- 6'.3		16	67	10.2		$-0^m 2^s$	+ 9'.3	
2	14	8.1	7.8	+1 14	+27.8		17	68	10.2	10	+1 33	- 2.1	
3	25	8.5	8.5	+0 55	+ 8.1		18	74	10.4		+0 18	- 2.4	Ĭ.
4	38	9.0	9.2	-1 28	+14.3		19	76	10.5		+0 14	+ 6.9	
5	47	9.4	9.5	+1 32	-19.2		20	78	10.6		+0 53	+ 1.8	
6	48	9.5	9.4	-1 7	-27.3		2 I	78	10.6		-0 57	- 2.1	
7	51	9.5	9.6	-1 20	+11.1	,	22	81	10.7		-0 30	- 2.1	
8	52	9.6	9.5	-1 3	+13.7		23	82	10.7		-0 2	- 3.9	
9	56	9.8	9.5	+0 30	-26.7		24	82	10.7		-0 7	+ 2.1	(t)
10	59	9.9	9.5	-1 57	+23.7	1	25	86	10.9		-0 28	+ 2.1	*
11	60	9.9	10	-1 36	-19.5		26	90	11.0		+0 43	+ 3.3	
12	63	10.0	10	-1 54	- 5.7	3	27	95	11.2		+0 32	+ 1.5	- 33
13	63	10.0	9.9	-1 38	+26.0		28	97	11.3		+0 5	+ 1.5	
14	63	10.0		+1 1	+ 2.7								
15	66	10.1		-0 44	- 2.1	W As	4						

M = 8.1 + 0.038 (G - 12.8).

7577

X Capricorni

 $21^{h} 0^{m} 15^{s}$ (1855.0) $-21^{o} 55.8$

Max. = 2403196^{d} (17. Aug. 1867) + $218.1 E + 20^{d} \sin (10^{0} E + 50^{0})$.

Num.	Gradus	Magn.	BD.	Δα	Δδ	· Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
r			5.3	$+0^{m} 1^{s}$	+ 9'.6	S. 5 ^M 4,	16	35	9.8	10	$+1^{m}25^{s}$	+14'.4	
						χ25=h3009	17	38	10.0	9.6	-1 27	-26.3	CD. 9 ^M .5
2	0	7.9	7.8	+0 3	-20.1	CD. 7 ^M 8	18.	38	10.0	9.8	+1 14	+10.5	
3	4	8.1	8.3	+1 2	+18.0		19	38	10.0	9.9	-1 32	+24.6	
4	11	8.5	8.7	-1 25	+27.5		20	41	10.1	10	+1 9	- 9.0	" 9 [™] 6
5	18	8.9	9.2	-0 20	+21.1		2 I	43	10.3		+0 30	- 2.4	
6	20	9.0	9.0	-0 33	+ 8.7	1	22	44	10.3	10	+0 9	- 3.0	
7	22	9.1	9.0	-0 37	+14.1		23	45	10.3		-0 20	- 0.6	'
8	22	9.1	9.1	-0 39	-18.9	n 9·3	24	49	10.6		+0 47	+ 6.0	
9	23	9.2	9.3	+1 34	+29.0		25	53	10.8		+0 57	+14.7	,
10	28	9.4	9.5	+1 28	-14.4	n 9·3	26	55	10.9		+0 5	+ 9.9	
11	28	9.5	9.5	-0 5	+23.7		27	58	11.0		+0 13	- 3.3	,
12	31	9.6	9.3	-0.55	- 9.6	9٠3 و	28	60	11.2		-0 13	- 8.4	
13	32	9.7	10	+1 53	+17.7	1.	29	66	11.5		+0 46	- 7.5	
14	33	9.7	9.8	-1 53	+24.0		30	76	12.0		-0 38	+ 6.6	
15	35	9.8	9.5	+0 50	-21.3	, 9.6	31	85	12.5		-0 43	+ 1.5	

M = 8.9 + 0.054 (G - 17.9).

757 I

V Capricorni

 $20^{\rm h} \, 59^{\rm m} \, 9^{\rm s}$ (1855.0) $-24^{\rm o} \, 30'.2$

Max. = 2403197^{d} (18. Aug. 1867) + 157^{d} .1 E + 15^{d} sin (10° E + 100°).

Num.	Gradus	Magn.	CD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	CD.	Δα	Δδ	Notae
ĭ	0	7.4	7.4	$+1^{m}36^{s}$	+17'.7		2 I	85	10.6	10	$+0^{m} 5^{s}$	+26'.1	
2	4	7.6	7.6	+0 55	-17.4	*	22	87	10.6	9.9	+0 10	+ 3.1	
3	27	8.4	8.5	-2 41	+18.6		23	87	10.6	10	-1 0	- 5.8	
4	39	8.9	9.0	-1 37	-16.2	· ·	24	88	10.7	9.8	-0.58	- 4.5	
5	47	9.2	8.7	-0 57	+19.8		25	90	10.8	10	+0 2.	+13.6	
6	51	9.3	9.3	-0 45	+20.3	8	. 26	91	10.8	10	-0 58	-17.8	
7	56	9.5	9.0	-1 20	+20.6		27	94	10.9	9.8	+1 12	+27.7	* *
8	57	9.6	9.5	-1 18	-17.3		28	.96	11.0	10	-1 46	- 0.9	*
, 9	60	9.6	9.6	+0 22	- 6.8		29	100	11.1	10	+0 20	-12.9	
10	64	9.8	9.4	-1 19	+21.6	·	30	101	11.2		-0 4	+10.8	-4-
ıı,	64	9.8	9.6	-2 2	+ 0.2		31	105	11.3	10	+0 34	+15.1	
12	66	9.9	9.8	+1 35	+ 3.1		32	111	11.5		+0 15	+13.8	
13	69	10.0	9.8	+1 33	+ 2.6		33	114	11.6		-0 51	- 5.2	1 172
14	74	10.2	9.7	+0 44	- 2.4		34	116	11.7		+0 10	- 0.9	
15	74	10.2	9.6	-1 36	+30.0		35	120	11.9		+0 48	-10.0	, -
16	74	10.2	9.9	-0 13	-23.6		36	123	12.0		+0 3	-14.2	
17	75	10.2	9.8	-1 53	+11.4	8	37	127	12.1		+0 34	+ 2.3	
18	77	10.3	9.9	+0 48	+ 8.1		38	130	12.2		-0 30	+12.9	
19	80	10.4	9.9	+0 13	-20.3		39	130	12.2		+1 1	- 7.5	9
20	84	10.6	10	+0 10	+15.6								

Computatio magnitudinum hic paullulum differt a consueta, quia limitem 10^{M} in catalogo CD. nostris observationibus ad scalam Bonnensem reduximus.

$$M = 9.0 + 0.037 (G - 47.4).$$

7907

U Aquarii

 $21^{\rm h} 55^{\rm m} 24^{\rm s}$ (1855.0) $-17^{\rm o} 19.5$

Max. = 2406105^{d} (4. Aug. 1875) + 258^{d} E?

Num.	Gradus	Magn.	BD.	- Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
ı			6.8	$-0^m 54^s$	-20'.4	Dupl. Fl. 29.*	16	32	10.5		$-0^{m}11^{s}$	+12'.6	
2	0	8.1	8.0	+0.53	+27.7		17	36	10.8		-0 31	- 3.0	
3	4	8.4	8.5	-1 30	- 8.9		18	36	10.9		-0 50	+ 5.1	
4	7	8.7	8.8	-0 51	+26.6		19	40	11.2		-0 1	- 2.1	
5	10	8.9	9.0	+0 2	+27.2		20	43	11.4		-0 48	+ 0.2	
6	12	9.1	9.1	-2 3	+24.8		2 I	47	11.7		-0 33	- 6.6	
7	14	9.2	9.1	-0 34	+11.8		22	47	11.7		-0 29	+ 4.9	
8	15	9.3	9.2	+0 11	-27.1		23	48	11.8	1	+0 48	-0 .3	
9	18	9.5	9.5	+0 13	-16.9		24	49	11.9		-0.53	- 4.0	
10	18	9.5	9.3	+0 15	+ 9.9		25	56	12.4		+0 15	- 6.2	
11	20	9.7	9.9	+1 4	-14.4		26	61	12.8		+0 14	- 0.6	
12	22	9.8	9.9	+1 7	-10.8		27	66	13.2		+0.26	+ 1.9	
13	24	9.9	9.8	-1 57	+23.1								
14	24	10.0	9.8	+1 43	-13.0								
15	25	10.1	10	+0 25	- 6.4								

^{*} $\boldsymbol{\mathcal{Z}}^{1}$ 2654 c. g., U. A. $7\boldsymbol{\xi}^{M},\,7^{M}$ in ordine A. R.

M = 9.0 + 0.077 (G - 24.2).

593 I

S Ophiuchi

 $16^{\rm h} 25^{\rm m} 55^{\rm s}$ (1855.0) $-16^{\rm o} 51'.1$

 ${\tt Max.} = 2\,399\,495^{\tt d}\ (29.\ {\tt Jun.}\ 1857)\,+\,233^{\tt d}.8\ {\tt E}.$

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
****	0	8.1	8.0	$-2^{m}37^{s}$	- 32'.9			97	10.8		$+0^{m}17^{s}$	+ 5'.9	
Į	5	8.2		$+2 \ 45$			23	102	11.0		+0.41	+ 8.1	
2			8.3		- 0.4		24				-0.14		Ch. 12 ^M
3	30	8.9	9.1	-1 26	- 8.8	*	25	102	11.0		-0 14	+ 0.8	CII, 12-5
4	30	8.9	9.0	+0 21	+14.7		26	106	11.1		+0 21	- 2.1	60
5	37	9.1	9.1	-1 44	-29.6		27	108	11.1		-0 17	+ 6.6	Duplex.
6	41	9.2	9.3	+2 0	- 1.8		28	110	11.2		+0 41	+ 3.3	
1	42	9.3	9.4	+0 53	+11.8		29	114	11.3		+0 28	+11.4	
8	49	9.5	9.5	+0 57	+ 0.4		30	114	11.3		+0 47	- 8.7	
9	50	9.5	9.4	+1 56	+ 8.4					'			. •
10	56	9.7	9.5	+0 49	+26.0		31	121	11.5	00	+0 57	- 8.4	
• •			3.3				32	125	11.6		+0 37	+ 6.3	*
II	56	9.7	9.5	-1 7	+12.9		33	125	11.6	1	-0 9	+11.4	
I 2	59	9.8	9.8	-0 54	+ 9.3	*	34	128	11.7	ļ	-0 11	+ 9.0	le .
13	65	9.9	9.7	+0 39	-21.3	l .	35	131	11.8	1	+0 1	+ 6.3	¥ +
14	67	10.0		+0 59	+11.3		36	135	11.9		-0 13	+ 9.9	*
15	70	10.1		+0 28	- 6.6	,	1	135	11.9		-0.13	- 2.7	0
	75	100		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.6	,	37	143	12.2		-0.26	- 4.8	
16		10.2		-0 52	- 9.6		38	1	12.2		+0 2	- 4.5	
17	77	10.3		-0 22	-10.5	. ,	39	146			' ' -		
18	81	10.4		+0 44	-12.0		40	152	12.4	1	+0 14	- 2.2	
19	84	10.5		+0 8	-10.4		41	156	12.5	ļ	-0 2	- 7.5	•,
20	86	10.5		-0 55	+ 3.0								
2 I	92	10.7		-0 5	+ 4.2	Ch. rı ¹ M							
22	95	10.8		-0 54	- 3.0								

M = 8.9 + 0.029 (G - 29.2).

S Sagittarii

 $19^{h} 10^{m} 57^{s}$ (1855.0) $-19^{o} 17'.1$

Max. = 2402870^4 (25. Sept. 1866) + 230^46 E (Inaequalitas periodica).

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	48	Notae
1 2 3	0 3	8.0 8.2	5.3 8.0 8.0	$-1^{m}48^{s}$ $-1 14$ $+6 33$	+ 4'.8 + 9.6 -20.7	S.5 ^M 3, d=Fl.43 ^{SI} 2261 c. g.	36 37 38	51 56 56	10.3 10.5 10.5		$+0^{m} 1^{s} +0 50 -0 54$	+14'.1 -12.3 -10.8	
4 5	3 5	8.2 8.3	8.o 8.3	-0 55 + 1 50	$+19.5 \\ +22.2$	Hh 607	39 40	58 61	10.6 10.7		+0 34 +0 11	+ 5.4 +13.5	
6 7 8 9	6 8 11 13 15	8.3 8.4 8.5 8.6 8.7	8.5 8.5 8.8 8.7 9.0	$ \begin{array}{rrr} -1 & 6 \\ -0 & 41 \\ +1 & 1 \\ -1 & 58 \\ -1 & 55 \end{array} $	-20.2 $+17.4$ $+9.3$ $+26.7$ -1.8		41 42 43 44 45	64 67 67 68 68	10.8 11.0 11.0 11.0 11.0		$ \begin{array}{cccc} +0 & 24 \\ -1 & 1 \\ +0 & 21 \\ -0 & 35 \\ -0 & 7 \end{array} $	+11.1 -9.6 -0.3 $+9.9$ -14.1	(0'
11 12 13 14	15 17 17 18 24	8.7 8.8 8.8 8.8 9.1	9.1 8.5 9.2 8.5 9.2	$ \begin{array}{rrr} +1 & 4 \\ -2 & 3 \\ +1 & 24 \\ -1 & 23 \\ -0 & 55 \end{array} $	+1.5 $+15.6$ -2.4 -6.6 -2.7		46 47 48 49 50	68 70 71 73 73	11.0 11.1 11.1 11.2 11.2		+0 51 -0 15 +0 41 -0 49 +0 57	$ \begin{array}{r} -3.6 \\ -12.9 \\ -7.0 \\ +8.7 \\ +0.9 \end{array} $	***
16 17 18 19 20	25 27 29 31 31	9.1 9.2 9.3 9.4 9.4	9.0 9.5 9.1 9.5 9.3	$ \begin{array}{cccc} -1 & 31 \\ +1 & 10 \\ +0 & 5 \\ +0 & 51 \\ +0 & 50 \end{array} $	$ \begin{array}{r} -23.7 \\ -8.4 \\ -27.0 \\ +14.1 \\ -29.0 \end{array} $		51 52 53 54 55	73 73 • 74 74 75	11.2 11.2 11.3 11.3 11.3		+0 17 +0 8 -0 16 -0 18 -0 37	+ 8.7 - 6.3 + 9.0 - 2.7 -10.5	w **
21 22 23 24 25	32 34 36 36 36 38	9.5 9.5 9.6 9.6 9.7	9.4 9.3 9.8 9.7	+0 22 -0 4 +0 33 -1 41 +0 21	$ \begin{array}{r} -15.0 \\ -26.0 \\ +23.1 \\ -14.2 \\ +23.1 \end{array} $		56 57 58 59 60	75 75 75 77 78	11.3 11.3 11.3 11.4 11.4		+0 54 -0 43 -0 49 -0 4 -0 21	- 1.2 +12.0 + 6.0 -10.2 - 0.3	
26 27 28 29 30	38 39 39 44 45	9.7 9.7 9.8 9.9 10.0	9.6 9.5 9.8	$ \begin{array}{rrrr} -1 & 4 \\ +0 & 45 \\ +0 & 52 \\ -1 & 39 \\ +0 & 45 \end{array} $	$ \begin{array}{r rrrr} -2.4 \\ +18.0 \\ -15.6 \\ -2.7 \\ +8.1 \end{array} $		61 62 63 64 65	79 81 81 81 82	11.5 11.6 11.6 11.6 11.6		$ \begin{array}{cccc} -1 & 0 \\ +0 & 19 \\ 0 & 0 \\ -0 & 35 \\ -0 & 22 \end{array} $	+12.3 -3.3 $+4.9$ -13.2 -12.6	
31 32 33 34 35	45 46 47 47 50	10.0 10.0 10.1 10.1 10.2	9.8	-1 35 -1 28 -0 58 +0 32 +0 29	+ 2.1 - 6.8 +11.7 - 8.7 - 1.2		66 67 68 69 R	83 84 88 89	11.7 11.7 11.9 11.9	var.	-0 12 -0 20 -0 40 -0 5 -2 46	$\begin{array}{r} + 8.7 \\ - 5.4 \\ + 10.5 \\ + 4.5 \\ - 16.4 \end{array}$	

Ch. 11^{M} , $+24^{s}-2'.5$?

2857

U Puppis

 $7^{h} 54^{m} 2^{s}$ (1855.0) — $12^{o} 26'.6$

 $Max. = 2408148^d$ (8. Mart. 1881) + 315^d E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1 2 3 4 5	0 3 3 5 5	7.7 8.0 8.0 8.2 8.2	7.6 8.3 8.5 8.5 8.5	$ \begin{array}{rrr} -1^m & 5^s \\ +1 & 16 \\ -0 & 24 \\ -1 & 21 \\ +1 & 43 \end{array} $	-1'.2 + 2.7 + 20.4 + 20.1 + 29.0		36 37 38 39 40	27 27 28 29 29	10.2 10.2 10.2 10.4 10.4	10 9.8 9.8	$+0^{m}38^{s}$ $+0$ 8 -0 50 -1 1 $+0$ 33	+12'.0 +10.8 -18.9 - 7.8 +15.9	
6 7 8 9	8 10 10 13 13	8.4 8.6 8.7 8.9	8.8 8.7 8.3 8.7 9.0	+0 50 -1 56 +0 34 +0 33 +1 29	+6.9 -28.1 $+3.0$ -23.1 $+2.4$	÷	41 42 43 44 45	30 31 32 33	10.4 10.6 10.6 10.7 10.7	9.5	-1 0 +0 35 -1 0 -0 10 -0 26	$ \begin{array}{r} -5.1 \\ +9.0 \\ +11.1 \\ -12.9 \\ +3.3 \end{array} $	
11 12 13 14	14 16 17 17 18	9.0 9.1 9.2 9.3 9.4	8.9 9.1 9.0 9.1 9.6	$ \begin{array}{ccccc} -0 & 4 \\ +1 & 5 \\ -0 & 7 \\ +1 & 36 \\ -1 & 35 \end{array} $	-14.4 $+17.7$ -13.5 -21.0 $+10.8$		46 47 48 49 50	33 35 36 36 36	10.7 10.9 11.0 11.0		-0 36 -0 42 -0 15 +0 39 -0 36	-10.2 -4.2 $+11.7$ $+13.2$ -15.0	
16 17 18 19	19 19 19 19 20	9.4 9.4 9.4 9.5	9.0 9.7 9.9 9.3	+1 19 -0 2 +1 48 +1 28 +0 44	-10.8 -12.6 -14.7 -3.0 $+3.0$	Duplex. Duplex.	51 52 53 54 55	37 37 37 37 37	11.0 11.1 11.1 11.1 11.1		$ \begin{array}{rrrr} -0 & 4 \\ +0 & 34 \\ +0 & 22 \\ -1 & 5 \\ -0 & 33 \end{array} $	- 4.5 - 0.9 - 4.5 + 1.2 -14.4	
21 22 23 24 25	21 21 21 21 21 22	9.6 9.6 9.6 9.7 9.7	9.5 9.3 9.9 9.4 9.5	$ \begin{array}{rrr} -1 & 57 \\ -0 & 25 \\ +0 & 59 \\ -1 & 51 \\ +0 & 53 \end{array} $	+16.2 +18.6 -15.0 - 3.3 + 7.8		56 57 58 59 60	38 38 39 39 40	11.2 11.2 11.3 11.3 11.3		+0 7 -0 12 -0 8 +0 51 -0 37	$ \begin{array}{r} -8.4 \\ +12.3 \\ -6.3 \\ +11.4 \\ +13.5 \end{array} $	
26 27 28 29 30	22 22 23 23 24	9.7 9.7 9.8 9.8 9.9	9.1 9.9 9.3 10 9.7	$ \begin{array}{rrr} -0 & 28 \\ +1 & 51 \\ -0 & 29 \\ -1 & 24 \\ +0 & 25 \end{array} $	$ \begin{array}{r} -24.0 \\ +18.0 \\ -13.8 \\ +17.7 \\ +3.9 \end{array} $	* *	61 62 63 64 65	40 40 41 41 42	11.3 11.4 11.4 11.4 11.5	9.9	-0 14 -0 8 -0 10 +1 39 -0 7	$\begin{array}{c} + 2.4 \\ -12.0 \\ +12.0 \\ - 6.9 \\ - 9.0 \end{array}$	Ch. IIM * Duplex. *
31 32 33 34 35	25 26 27 27 27	10.0 10.1 10.1 10.2 10.2	10 10 9.7 9.3 9.5	+1 5 -1 9 -1 43 -1 54 -1 13	+15.6 +11.7 -12.3 -20.1 -27.2		66 67 68 69 70	42 42 43 43 44	11.5 11.6 11.6 11.6 11.7	N	$ \begin{array}{rrrr} -0 & 47 \\ +0 & 55 \\ -0 & 40 \\ -0 & 15 \\ -0 & 49 \end{array} $	+ 9.3 + 9.0 - 9.3 + 9.6 +14.7	

^{*} $\frac{1}{2}(62 + 65) = BD. - 12^{\circ}.2271, 10^{M}$?. Ch. 13^{M} , $+2^{s} - 1'.5$ invisib.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn,	BD.	Δα	Δδ	Notae
71	45	11.8		$+0^{m}24^{s}$	- 9'.6		86	49	12.2		$-0^{m}31^{s}$	+ 9'.9	
72	45	11.8		-0 37	+12.3		87	49	12.2		+0 36	- 0.3	
73	45	11.8		+0 42	+10.5		88	51	12.3		+0 2	- 9.0	
74	46	11.9		+0 5	+ 5.4		89	51	12.3		+0 43	- 6.9	
75	46	11.9		-0 24	- 3.9		90	52	12.4		+0 9	0.0	
76	47	12.0		+0 20	- 3.6		91	52	12.4		-0 20	+ 6.9	
77	47	12.0		-0 30	- 0.9		92	52	12.5		-0 11	+ 4.2	1
78	47	12.0		+0 12	+ 8.7	- 6-	93	54	12.7		+0 23	- 2.1	
79	47	12.0		-0 43	+ 8.1		94	54	12.7		+0 16	+ 6.9	. ,
80	47.	12.0		+1 2	+ 8.4		95	55	12.7		+0 58	+ 3.0	
81	47	12.0		-0 5	+ 5.7		96	55	12.7		0 0	+10.2	· · · · · · · · · · · · · · · · · · ·
€2	47	12.0		-0 55	- 3.6		97	56	12.8		+0 57	- 9.9	
83	48	12.0		-0 5	- 6.9		98	57	12.9		+1 1	+ 3.0	
84	49	12.1		+0 16	- 6.9		99	59	13.1		-0 9	- 1.2	
85	49	12.2		+0 30	+ 9.6		100	60	13.2		+0 51	+ 0.6	

M = 9.0 + 0.091 (G - 14.1).

845

R Ceti

 $2^{h} 18^{m} 38^{s}$ (1855.0) $-0^{o} 50'.1$

Max. = 2403028^{4} .0 (2. Mart. 1867) + 167^{4} .0 E, (Inaequalitas periodica).

Num.	Gradus	Magn.	BD.	Δα	_18	Notae	Num.	Gradus	Magn.	BD.	Δα	18	Notae
	0	8.0	8.0	$+1^{m}28^{s}$	-34′.3		16	55	10.7		$-0^{m} 3^{s}$	-15'.6	
. 2	10	8.5	8.3	+2 23	- 3.1		17	56	10.8		.+0 17	+13.0	
3	12	8.6	8.8	+157	+24.0		18	60 ~	10.9		+0.52	+ 4.2	
4	22	9.1	9.3	+1 9	+20.4		19	65	11.2		-0.50	- 9.6	
5	26	9.3	9.3	+2 9	-32.0		20	66	11.2		+0 25	+12.0	
6	28	9.4	9.2	+0 5	-15.9	,	21	70	11.4		-0 33	-13.5	
7	29	9.4	8.9	+1 36	-13.8		22	73	11.5		-0 57	+ 8.7	
8	34	9.7	9.5	-1 48	-24.6	·	23	76	11.7		-0 43	- 3.6	
9	38	9.8		+1 17	+ 9.6		24	78	11.8		-0 1	-11.7	
10	44	10.2	,	-0 39	- 5.7	TO THE STATE OF TH	25	78	11.8		-0 38	-11.7	r I
11	45	10.2		-0 22	+15.1		26	82	12.0		-0 59	-12.9	» •
12	49	10.4		-0 25	- 8.4	, , , , , , , , , , , , , , , , , , ,	27	87	12.2	-	-0.15	- 1.2	
13	49	10.4		-0 39	+15.1		28	92	12.5		-0 1	+ 6.0	
14	52	10.5		+0 28	+14.2		29	95	12.6		-0.10	- 36	
15	54	10.6		-0 22	+ 6.3	*							

^{* 15} \approx Ch. 11^M, $-12^s + 5'$?

M = 8.7 + 0.049 (G - 14.0).

3184

T Hydrae

 $8^{h} 48^{m} 37^{s}$ (1855.0) $-8^{o} 35'.4$

 $Max. = 2399739^d$ (28. Febr. 1858) + 288 d 8 E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1	0	7.6	7.0	$-1^{m}26^{s}$	+22'.5		29	48	10.4		$-0^{m}21^{s}$	- 3'.3	
2	10	8.2	8.5	+1 46	-16.2		30	51	10.6	·	+0 46	+ 2.4	0
3	10	8.2	8.5	+1 23	-28.8				100				
4	11	8.2	8.3	-1 17	- 3.9		31	55	10.9		+0 35	- 3.9	
5	15	8.5	8,6	+2 0	+23.1		32	55 50	10.9		-0 48	- 7.5	*
6	17	8.6	9.0	+1 39	-18.9		33	56	10.9		+0 19	+10.5	
	21	8.8	9.3	+1 56	+2.1	Variabilis?	34	56	10.9		+0.12	+ 0.9	
7 8	21	8.9	8.8	$+1 \ 6$	+ 5.1	variabins:	35	57	11.0		-0 32	- 9.0	
	23	9.0	9,0	-1 50	-18.0		36	58	11.1		+1 2	- 3.6	
9 10	24	9.0	9.0	+1 34	-20.1		37	59	11.1		+0.57	- 2.4	
10		9.0	9.0	4T 0#	-20.1		38	59	11.1		-0 7	+ 8.4	"
11	25	9.1	9.3	-1 21	+ 5.4		39	60	11.2		-0 16	+14.1	0.
12	26	9.1	9.1	-0 55	+13.5		40	60	11.2		+0 36	- 3.6	* .
13	28	9.2	9.1	+0 14	-15.3			61	11.2				*-
14	29	9.3	9.1	-1 2	+21.0		41	61 62	11.2		+0 44	+ 9.9	
15	32	9.5	9.0	-156	+11.7		42		l		+0 8	+14.1	O1 15 A
16	33	9.6	9.3	+1 44	- 6.9		43	63	11.3		-0 8	+ 2.1	Ch. 10 ^M 5 (?)
	33	9.6	9.5	+0 37	-13.5		44	63	11.3		+0 22	- 5.4	
17 18	33	9.6	9.0	+0 3	+19.8	,	45	63	11.3		+0 48	- 3.9	
	37	9.8		$-1 \ 3$	-13.5		46	64	11.4		-0 6	+ 5.4	
19 20	37	9.8	9.5	+0 8	+2.7		47	66	11.5		+0 4	+14.4	
20	"	9.0	10	70 0	+ 4.1	*	48	66	11.5	- 1	+0 13	+ 6.0	
2 I	40	10.0	9.4	-158	-15.9		49	66	11.5	14	+0 5	-11.4	
22	43	10.2	10	+0.43	- 7.2		50	66	11.5		+0 41	+ 4.8	
23	44	10.2		-0 33	- 4.2	-		67	11.0	-	0 5		
24	45	10.3		+0 33	0.0	÷	51	67	11.6		-0 5	+ 5.3	,
25	45	10.3		-0 28	+ 9.6		52	68	11.7		+0 2	- 5.7	
26	46	10.3		+0 26	-11.7		53	68	11.7		+0 52	- 5.1	
	47	10.5		+0 26 -0 38	-11.7	100	54	70	11.8		+0 4	+ 5.1	A
27 28	48	10.4				47,	55	73	11.9		+0 33	- 2.7	
28	1 40	10.4		+0 44	+15.3	l • 1	l]]

M = 9.0 + 0.060 (G - 23.8).

8512

R Aquarii

 $23^{h} 36^{m} 19^{s}$ (1855.0) $-16^{o} 5'.3$

Max. = $2382847^{4}.6$ (30. Nov. 1811) + $387^{4}.16 E + 35^{4} \sin(10^{6} E + 235^{6})$.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0		5.3	$-1^{m}22^{s}$	- 9'.6	S. 5 ^M .8	16	66	9.9	10	$-0^{m}14^{s}$	-26'.0	
2	11		6.5	-5 48	+11.9	, 6.8	17	67	9.9	9.7	+1 9	- 6.3	
3	20	7.8	7.8	+2 4	+31.7		18	75	10.3		-1 1	-14.4	
4	27	8.1	8,1	-151	-10.8		19	79	10.5		+0 31	- 2.4	
5	35	8.5	8.7	+0 13	-23.1		20	79	10.5		+0 49	+14.7	
6	40	8.7	8.8	-2 15	-20.4		21	83	10.6		-0 57	- 2.1	
7	42	. 8.8	9.0	+0 35	+18.3	÷	22	86	10.8		-0 36	-11.7	
8	47	9.0	9.0	+1 38	- 3.6		23	90	11.0		-0 3	+12.6	
9	51	9.2	9.0	-1 54	+17.7	'	24	94	11.1		+0 35	-12.3	
10	56	9.4	9.3	-0 33	+12.0		25	96	11.2		+0 42	-14.4	
II	57	9.5	9.6	+0 32	-14.7		26	99	11.3		-0 45	- 6.7	
I 2	61	9.6	9.7	+1 1	+26.4		27	-99	11.4		-0 41	- 9.0	
13	64	9.8	9.5	-0 31	- 9.3	,							
14	65	9.8	9.4	-1 2	- 9.9						,		
15	65	9.8	9.5	-1 42	- 9.9								

M = 9.0 + 0.045 (G - 46.7).

T Aquarii

 $20^{\rm h} 42^{\rm m} 17^{\rm s}$ (1855.0) $-5^{\rm o} 40'.9$

Max. = $2401096^{\circ}.0$ (16. Nov. 1861) + $203^{\circ}.3$ E + 8° sin (7.5 E + 255°).

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I			4.2	$-2^{m}12^{s}$	+ 8'.1	S. 4 ^M 8	33	54	10.5	10	$+0^{m}35^{s}$	-27'.6	W .
2	0.		6.0	+2 11	-21.6		34	54	10.5		+0 4	-11.1	
3	4		6.5	+1 28	-27.9		35	59	10.8		-0 59	- 6.3	
4	9	7.5	7.5	-1 40	+30.7								·
5	14	7.8	8.5	+2 23	+26.6		36	59	10.8		+0 26	- 4.8	
6	15	7.9	8.0	+0 46	. 21 0	. (X)	37	60	10.9	,	+0 38	+10.5	
	20	8.2	8.8		+21.9		38	60	10.9		-0 38	+12.9	
7 8	21	8.3	1	-1 20	+23.1		39	61	11.0		+0 29	+ 8.1	180
	25	8.5	8.5	+1 53	+21.0		40	63	11.1		+0 23	- 6.6	,
9	$\frac{25}{32}$	9.0	8.3	+0 24	+ 2.4		41	63	11.1		-1 5	+ 9.9	
10	52	9.0	9.4	+0 31	- 6.3		42	65	11.2		-0 37	- 4.5	
TI	32	9.0	9.2	+1 31	- 2.7		43	65	11.2		+0 32	- 9.0	- 9-
12	35	9.2	9.4	-0 29	- 4.8		44	67	11.3		+0.55	+ 2.1	
13	36	9.3	9.1	+1 23	-26.7		45	67	11.3		+0 22	+ 5.7	
14	37	9.3	9.4	+1 46	+12.0]							
15	37	9.3	9.5	-0 33	+17.7		46	68	11.4	В	-0 40	+14.7	
- 6	37	9.4			95.0		47	70	11.6		+0 10	- 7.2	
16	40	9.4	9.3	+0 6 -0 33	-25.8	,	48	71	11.7	0	-0 41	- 0.6	- 0
17 18	40	9.6	9.5		- 6.0	*	49	71	11.7		-0 34	- 8.4	
1	42	9.7	9.5	+0 42	- 5.4		50	71	11.7		+0 27	+13.5	
19	43	9.7	9.7	+1 13	- 5.1		5 T	74	11.9		+0 33	+11.7	
20	40	9.1	9.4	-1 4	-18.3		52	75	11.9		+0 3	+ 3.0	
2 I	46	10.0	10	-0 21	+ 3.3		53	76	12.0		-0 35	- 7.2	
22	47	10.0	9.7	+1 25	+ 6.0	*	54	76	12.0		+0 21	-14.7	
23	47	10.0	9.5	-1 42	-16.8		55	78	12.1		-0 33	- 9.0	
24	47	10.0	9.8	+0.38	-19.2			70	100		. 0 40	10.0	
25	48	10.1	9.5	-0.38	-27.6	"	56	79	12.2		+0 19	+13.2	χ.
26	50	10.2	,	+0 20	-17.7	9	57	82	12.4		-0 28	-11.1	
	50	10.2	10	+0.20 $+0.48$	$\begin{bmatrix} -17.7 \\ -6.0 \end{bmatrix}$		58	82 95	12.4		+0 2	- 2.7	
27 28	52	10.2	10	-0.50	-28.2	,	59 60	85 85	12.6		+0 9	- 7.5	·
29	52	10.3	9.8	-0.50 -1.39	-26.2 + 5.7		1	69	12.6		+0 10	+ 2.4	
30	53	10.4	9.5	+0.17	$\begin{vmatrix} + & 5.7 \\ -15.0 \end{vmatrix}$		61	85	12.6	- \$-	-0 48	- 3.3	· .
30			10	40 TI	-15.0								ý ž
31	53	10.4		+1 1	+ 3.6							, :	***
32	53	10.4		0 48	+11.7								1 141

M = 9.2 + 0.068 (G - 34.7).

4847

S Virginis

 $13^{h} 25^{m} 26^{s}$ (1855.0) $-6^{o} 26'.8$

Max. = 2397512^d (24. Jan. 1852) + 376^d 4 E + 20 sin (7.5 E + 180°).

Num.	Gradus	Magn.	BD.	Δα	⊿δ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0		6.6	$-2^{m}33^{s}$	+43'.5	S.6 ^M 4;72Virg.*	18	49	10.6		+0" 8"	+11'.7	
2	7	7.3	7.0	+0 24	-25.8	S. 6.9.	19	52	10.9		-0 43	+ 6.6	
3	15	8.0	8.1	+2 4	+13.8		20	56	11.2		-0.56	+14.1	
4 5	21 25	8.5 8.8	8.5 8.9	$-0 \ 40$ $-1 \ 4$	-14.4 -23.1	0 }	2 I	61	11.6		-0 58	+15.0	
							22	65	11.9		-0 50	+ 8.7	
6	26	8.8	9.1	+0 50	-5.4		23	65	11.9		+0 2	- 2.7	
7	30	9.2	9.1	-0 24	- 6.6		24	67	12.1		-0.15	+ 4.2	
8	34	9.4	9.3	-0 43	-2.4		25	71	12.4		+049	+ 5.5	
9 10	35 35	9.5 9.5	9.4 9.6	+1 39 -1 47	$-24.6 \\ +23.1$	*	26 27	73 74	12.5 12.6		-0 23 +0 12	+12.6 -15.0	Ÿ
II	37	9.7	9.7	-1 18	+12.0		28	75	12.7		-0 29	+ 8.1	ŵ.
12	39	9.8	9.5	-0 35	- 2.7		29	75	12.7		+0 22	+ 4.2) " ×
13	40	9.9	10	+1 25	+24.9	0 4	30	76	12.8		+0 5	-15.0	
14	41	10.0	9.7	+0 21	+16.8								
15	41	10.0	9.9	-1 15	-26.1		31 32	78 85	12.9 13.5		-0 24 +0 44	-7.8 + 9.0	
16	43	10.1		-0.22	-14.7								
17	45	10.3	9.8	-0 27	+29.4							A 10	

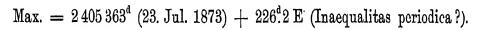
^{*} U. A. 154 Virg. var.?

M = 8.9 + 0.078 (G - 26.9).

5617

U Librae

 $15^{\text{h}} 33^{\text{m}} 37^{\text{s}}$ (1855.0) $-20^{\text{o}} 42'.6$



Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
ı	0	8.1	8.1	$-1^{m}20^{s}$	-24'.8		16	52	10.2		$+0^{m} 4^{s}$	+12'.4	
2	10	8.5	8.4	+1 17	+ 4.0		17	56	10.4		+0 10	-24.5	
3	16	8.8	9,1	-1 38	+13.6		18	59	10.5		-0 53	+ 9.1	
4	20	9.0	9.1	-1 19	- 0.2	LJ o	19	63	10.7		-1 0	-14.6	, .
5	24	9.1	9.1	+0 10	- 7.4	*	20	67	10.8		-0 10	-12.1	
6	25	9.2	9.1	+1 15	+27.1		2 1	71	11.0		-0 43	- 8.1	
7	31	9.4	9.6	-1 7	- 6.2		22	72	11.0		$-0 \ 30$	+ 3.7	
8	33	9.5	9.5	+1, 41	+12.1		23	76	11.2		-0.53	+12.1	
9	38	9.7	9.6	-0 40	+12.1		24	76	11.2		+0 28	+ 3.1	
10	43	9.9	10	-0 19	- 5.4	ar i	25	80	11.4		+0.46	+ 5.2	
11	46	10.0	10	-1 14	-18.8		26	81	11.4		-0 27	+ 7.3	
I 2	47	10.0		-052	- 0.2		27	82	11.5		-0 9	+ 1.1	10
13	48	10.1	10	+1 38	- 0.5		28	82	11.5		+0 11	+ 3.4	
14	49	10.1	10	-0 2	+ 0.1	* * *	29	87	11.7		-0 2	- 2.6	Duplex.
15	51	10.2	9.9	+0 23	-25.5		30	88	11.7		-0 49	- 8.0	

BD. -20° . $4293 (9^{\circ}.8, -1^{m} 58^{s}.5, -11'.4)$ nunquam visa (1891, 92, 94, 95).

M = 9.1 + 0.040 (G - 23.8).

5928

T Ophiuchi

 $16^{h} 25^{m} 27^{s}$ (1855.0) $-15^{o} 49'.2$

Max. = 2400507^{d} (6. Apr. 1860) + 361^{d} E?

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
1 2 3 4 5 5 6 7 8 9 10	0 20 51 55 59 64 69 75 79 84	7.6 8.1 9.0 9.1 9.2 9.3 9.5 9.6 9.7 9.8	7.5 8.2 9.3 9.2 9.5 9.5 9.5	$ \begin{array}{rrrr} -1^m & 5^s \\ +1 & 38 \\ +1 & 33 \\ -0 & 34 \\ -1 & 40 \\ +0 & 44 \\ +1 & 23 \\ -0 & 46 \\ -1 & 57 \\ +0 & 3 \end{array} $	+ 9'.1 - 8.3 +15.0 +17.4 +21.6 - 5.4 - 5.7 +12.9 +19.2 - 8.3		13 14 15 16 17 18 19 20	94 98 106 110 111 119 122 124 133	10.1 10.2 10.5 10.6 10.6 10.8 10.9 10.9	9.9	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	+ 3'.0 -21.3 +11.7 +21.6 - 3.2 -14.1 - 4.5 +10.2 + 3.9	Ch. 1o™
I I I 2	89 9 3	10.0 10.1		$-1 3 \\ +0 21$	- 0.1 + 9.2								

M = 9.2 + 0.027 (G - 59.6).

7234

R Capricorni

 $20^{h} 3^{m} 10^{s}$ (1855.0) $-14^{o} 41'.6$

Max. = 2400391^{d} (12. Dec. 1859) + 345^{d} E?

Num.	Gradus	Magn.	BD.	Δα	48	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0	8.2	8.2	$+1^m30^s$	+29'.0		23	58	10.7		$-0^{m}28^{s}$	- 3'.0	
2	5	8.4	8 5	+0 12	+29.3		24	58	10.7		+0 44	+ 9.6	
3	7	8.6	8.8	-1 32	- 0.3		25	61	10.8		-0 6	+ 6.6	·
4	16	8.9	9.0	-1 43	- 0.6			69	100	1			
5	24	9.2	9.1	-0 16	-27.0		26	63	10.9		-0 46	+ 8.7	
6	27	9.4		+1 20	- 9.9		27	64	10.9		+0 30	- 1.8	
	28	9.4	9.4	+1 20 $+1 5$	- 9.9 + 7.8		28	66	11.0		-0 41	+15.0	
7 8	36	9.4	9.5 9.8	-1 39	+22.8		29	67	11.1		+1 1	-10.8	
-	36	9.8	1 '	l e			30	68	11.1		-0 48	+11.4	
9 io	38	9.9	9.8	+0 15 -1 32	$\begin{vmatrix} -8.1 \\ -26.0 \end{vmatrix}$		31	71	11.2		+0 45	-11.1	
10	30	ช.ช	9.8	-1 54	-20.0	T.	32	74	11.4		-0 50	- 8.8	
11	39	9.9		-1 36	+15.9		33	74	11.4		+0 5	+ 2.4	
I 2	41	10.0	10	-1 0	- 0.3	0.0	34	75	11.4		+1 2	- 8.1	
13	41	10.0	10	-0 40	+ 3.6	*	3.5	76	11.5		-0 26	+12.3	*
14	42	10.0	9.8	-0 44	- 3.0	BD. $=46'.1$		70	110		. 0 00	20	e e
15	43	10.1		-0 59	+11.1		36	79	11.6		+0 33	- 3.9	
16	44	10.1		+0 58	+ 1.2	,	37	81	11.7		-0 37	+ 4.5	
	45	10.1		-1 25	+24.2		38	81	11.7		-0 38	-13.8	
17 18	45	10.2		-1 25 -1 16	+15.6		39	81	11.7		+0 24	+ 6.9	
	45	10.2	10				40	84	11.8		+0 43	+ 6.9	
19	49	10.2	9.8	$\begin{vmatrix} -0 & 17 \\ -1 & 0 \end{vmatrix}$	-16.8		41	84	11.8		-0 10	0.0	
20	40	10.5		-1 0	+20.4		42	89	12.0		+0 21	+ 6.0	,
2 I	49	10.3	1	+0 42	- 9.6		43	91	12.1		+0 13	-13.2	
22	53	10.5		+0 35	- 0.9	h(, ",							II

Sch. 13^M, dist. 20", ang. 3550, invisib.

M = 9.1 + 0.042 (G - 20.1).

5249

V Librae

 $14^{h} 32^{m} 18^{s}$ (1855.0) $-17^{o} 1.8$

Max. = 2408566^{d} (30. Apr. 1882) + 360^{d} E?

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
	0	8.1	_ 0	$-0^{m}59^{s}$	19'0			50	10.0		i cm ans	214	
I 2	4	8.3	7.8 8.3	$-0.59 \\ +1.53$	-13'.2 - 9.9		26	52 52	10.6 10.6		$+0^{m}27^{s} + 1 47$	- 5'.1 - 8.1	
3	5	8.3	8.6	-0 22	+12.6		27 28	54	10.8	9.9	+0.22	+ 5.1	
4	8	8.5	8.5	-1 53	-12.9		29	55	10.8		-0.32	-14.4	
5	11	8.6	8.5	+0 10	- 6.9		30	58	11.0		+0 47	+11.7	
6	15	8.8	8.9	-1 8	- 3.9				11.0		+0 22	- 8.1	
7	17	8.9	8.9	+1 27	+23.2		31	60 60	11.1		-0.46	-5.4	
8	18	9.0	9.1	+0.26	-18.6		32 33	63	11.2		-0.40	+ 8.4	
9	20	9.1	9.3	$-1 \ 46$	+23.1		34	63	11.2		+0 41	+13.5	
10	20	9.1	9.5	-1 30	+18.6		35	67	11.4		+0.24	-12.3	
. 11	23	9.2	9.4	+1 44	-29.5		36	67	11.4		-1 1	- 5.1	
12	24	9.3	9.3	-1 33	-24.0		37	69	11.5		-0 33	+ 5.4	
13	27	9.4	9.5	-0 54	+ 5.4		38	69	11.5	1	+0 49	+ 7.8	*
14	29	9.5	9.6	+1 25	-22.0	١.	39	71	11.6		-0 30	- 3.6	1.0
15	32	9.6	9.8	-1 4 8	+ 6.6		40	72	11.6		-0 32	+14.1	
16	35	9.8		+0 14	+ 0.6		41	74	11.7		-0 58	+ 8.1	
1 7	38	9.9		-0 4	+13.2	4.	42	74	11.7		-0 3	-12.0	·
18	41	10.1		+0 33	+ 0.3		43	75	11.8		-0 13	- 9.0	
19	41	10.1		+0 47	+ 5.2		44	76	11.8		+0 9	-11.7	*
20	43	10.2	10	+0 9	-25.8		45	77	11.9		-0 36	+ 6.4	
2 1	45	10.3		+0 19	+15.0		46	79	11.9		-0 11	- 9.9	
2 2	47	10.4	9.9	+0 12	-29.1		47	79	12.0		-0 28	+11.4	
23	48	10.5	9.5	-0 58	-13.0							7.0	
24	49	10.5		-⊦0 4 7	- 3.3								
25	49	10.5		+0.50	-11.1				-				

M = 9.1 + 0.049 (G - 20.5).

5704

RR Librae

 $15^{h} 48^{m} 4^{s}$ (1855.0) $-17^{o} 52'.6$

Max. = 2409710^{d} (17. Jun. 1885) + 277^{d} 0 E.

						•					1.00		
Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
r	0	8.1	8,0	$-0^{m}33^{s}$	+16'.8		26	53	10.7		$-1^m 0^s$	-14'.7	
2	4	8.3	8.6	-0 47	-29.3		27	57	10.9		+0 44	- 9.0	* * *
3	7	8.4	8.7	-0 24	+25.8		28	58	11.0		-0 56	- 8.5	
4	9	8.5	8.7	-0 21	+ 2.8		29	60	11.0		-0 28	-14.7	
5	17	8.9	9.0	-0 14	- 2.2		30	60	11.0		-0 47	+ 6.6	
. 6	19	9.0	9.2	-0 6	-18.3		31	61	11.1		+0-45	-13.8	
. 7	24	9.3	9. 1	-1 38	-12.3		32	62	11.1		-0 44	- 2.7	
8	25	9.4	9.0	+158	-10.5	. [33	62	11.2		+1 0	+ 1.5	
. 9	. 28	9.5	9.7	+0 4	-17.7		34	63	11.2		-0 40	+12.6	
10	30	9.6	9.3	+1 56	-19.5		35	64	11.2		-1 4	-14.4	,
11	32	9.7	9.8	-1 32	- 8.7		36	66	11.3		+0 33	- 4.2	•
I 2	33	9.7		+0 37	- 5.4		37	66	11.4		-0 32	+ 8.7	×-
13	33	9.7	9.6	+1 5	+ 0.6	·¥-	38	67	11.4		-0 47	- 7.5	
14	34	9.8	9.8	-0 1	+12.1		39	69	11.5		+0 9	+ 4.5	
15	34	9.8	10	+0 23	-29.0		40	75	11.8		-0 47	- 6.3	
16	38	10.0	9.9	+0 44	+21.0		41	75	11.8		+0 18	- 1.8	•
17	39	10.0		-1 4	- 3.0		42	80	12.0		+0 51	-14.4	,
18	40	10.1		-0 41	- 0.9	-	43	81	12.1		+0 19	- 6.3	
19	41	10.1	10	-0 4	+ 8.7		44	82	12.1		+0 41	-12.0	
20	43	10.2		-0.38	-14.7		45	84	12.2	ý.	+0 44	- 5.4	
2 I	43	10.2	10	-0 57	- 5.8		46	85	12.3		+0 6	- 6.6	
22	44	10.3	10	-0 14	+ 7.2								
23	45	10.3		+0 4	+13.8						1		
24	50	10.6		0 0	-13.8			,				· []	
25	53	10.7		-0 5	- 3.3								

M = 9.1 + 0.049 (G - 20.3).

7455

U Capricorni

 $20^{h} 40^{m} 4^{s}$ (1855.0) $-15^{o} 18.8$

Max. = $2399573^{d}.5$ (15. Sept. 1857) + $202^{d}.5 E + 20^{d} \sin (5^{0} E + 285^{0})$.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	. 0.	8.6	8.5	$+0^{m}19^{s}$	- 6'.9		26	45	10.5		$+1^{m} 3^{s}$	- 8'.7	
2	. 4	8.7	8.7	+1 0	- 6.6		27	47	10.6		-0 19	- 3.9	
3	6	8.8	8.8	-1 0	+13.2		28	49	10.6		-0 39	+ 4.8	141
4	7	8.8	9.0	+0 56	+17.7	,	29	49	10.7		+0 11	+ 7.2	-
5	9	9.0	9.1	-1 58	+ 3.5		30	50	10.7		-0 34	- 3.6	
6	10	9.0	9.2	-2 8	+ 3.9		31	52	108		+0 28	+ 7.2	*
7	14	9.2	9.1	+1 1	+14.4		32	53	10.8		-0 31	-10.5	
8	. 14	9.2	9.2	-0 31	+ 6.9.		33	54	10.9		-0 10	+ 9.3	
9	15	9.2	9.1	-1 16	-10.5		34	. 54	10.9		+0 22	+14.4	
10	15	9.2	9.0	+1 12	-28.1	,	35	57	11.0		-0 2	- 4.8	*
1 (16	9.2	9.4	+1 34	+21.9		36	- 57	11.0		+0 24	+ 9.9	, , , , , , , , , , , , , , , , , , ,
I 2	20	9.4	10	+1 16	+ 7.2		37	57	11.0		-0 48	+ 9.3	
13	21	9.5	9.4	+0.53	-24.6		38	61	11.2		-0 37	+ 7.5	
14	22	9.5	9.6	+0 35	- 0.9		39	62	11.2		+0 11	+14.7	
15	23	9.5	9.5	-1 39	-18.9		40	63	11.2		+0 18	- 3.6	
16	26	9.7	9.6	-0 32	+22.2		41	63	11.3		-0 17	-10.2	
17	29	9.8	9.5	-0 44	- 9.3		42	65	11.3		-0 21	- 3.0	
18	30	9.9	9.8	-1 30	+15.0		43	66	11.4		+0 42	+ 9.6	
19	34	10.0		+0 35	- 6.3		44	67	11.4		-0 33	-11.4	
20	35	10.1		+0.59	-14.4		45	67	11.4		+0 7	- 2.2	
2 I	37	10.1	9.5	-1 45	-29.9		46	68	11.5		+1 4	0.0	
22	41	10.3		-0 39	+15.0		47	73	11.7		+0 2	- 3.9	
23	41	10.3	- 4	-0 15	- 3.9	Ch. 10 ^M (?)	48	73	11.7		+0 28	- 2.4	
24	43	10.4		+0 39	0.0			9				1	
25	45	10.5		-0 59	+ 2.7								

M = 9.1 + 0.043 (G - 12.7).

7659

T Capricorni

 $21^{h} 14^{m} 0^{s}$ (1855.0) $-15^{o} 46'.4$

Max. = 2398878^d (21. Oct. 1855) + 269^d 2 E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	18	Notae
1	0	8.1	8,0	$-0^{m}31^{s}$	+ 0'.6		18	53	10.4		$+0^m52^s$	- 5'.7	
2	4	8.2	8.0	+0 16	+14.4		19	55	10.5		-1 17	+ 7.5	
3	12	8.6	8.8	+1 11	+20.4		20	55	10.5		-1 17	+ 6.6	
4	12	8.6	8.9	+1 34	+ 7.5		2 I	56	10.5		$+0 \ 42$	-12.2	
5	16	8.8	9.0	-0 5	+ 4.4		2 2	56	10.6		-1 3	+ 1.2	8
6	22	9.0	9.3	$+0 \ 33$	+23.6		23	59	10.7		-0 15	+ 7.2	
7	28	9.3	9.3	+0 5	+14.1	·	24	62	10.8		+0 43	- 4.4	
8	30	9.4	9.5	+0.54	- 9.3		25	62	10,8		+0 10	- 6.1	
. 9	35	9.6	9.5	+0 43	+ 6.5		26	65	11.0		$-0 \ 43$	+12.9	
10	37	9.7	9.5	+0.56	+15.6	۸.	27	66	11.0		-0 47	- 4.2	0
11	38	9.8	9.5	+1 22	+19.5		28	68	11.1		+0 36	+ 9.9	
12	40	9.8	9.5	-1 7	-12.2		29	70	11.2		+0 22	- 4.8	
13	41	9.9	9.5	+0.55	+12.6		30	75	11.4		-0 12	+ 1.8	
14	44	10.0	9.5	+1 35	+18.0			78	11.5		-1 0	- 3.6	
15	45	10.1	10	+0 31	- 0.6		31	79	11.6		+0.25	-4.5	
16	49	10 2		-0 13	+11.7	•	32		14.0	1	, 0 20	0.4	-30
17		10.3		-0.54	- 6.9								

M = 9.0 + 0.044 (G - 20.9).

T Sagittarii

 $19^{h} 7^{m} 52^{s}$ (1855.0) $-17^{o} 13'.2$

Max. = 2413384^d (9. Jul. 1895) + 384^d E.

Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	Δα	Δδ	Notae
I	0		6.8	$-1^{m}25^{s}$	-22'.1		38	44	10.3		$-1^m 8^s$	10/0	
2	7	7.9	7.8	+0 6	+24.2		39	45	10.3 10.4	9.5		-16'.2	Duplex.
3	7	7.9	7.8	+1 37	+ 2.7		40	46	10.4		+0 10	+ 0.3	Ch. 11 ^M 5.
4	11	8.1	8.2	+0.49	- 5.1		40				-0 52	+ 9.9	* .
5	13	8.3	9.0	+0 36	+21.8		41	46	10.5		-0 20	- 9.4	
6	14	0.4				. *	42	47	10.5		+0 38	- 3.9	*
	14 17	8.4	89	-0 16	+21.0		43	48	10.6		+0 20	+7.2	
7 8	20	8.5	8.8	-0 41	+ 6.6	- 8	44	51	10.8	9.5	+1 21	-29.0	
	l i	8.7	9.0	-1 31	- 2.5		45	51	10.8		-0 20	+14.1	
, 9	20	8.7	9.2	+0 33	+23.3		46	51	10.8		.0.50		
10	22	8.8	9.0	-0 11	-23.0			52	10.9		+0 56	+ 8.7	. *
11	23	8.9	9.0	-0 18	- 6.7	·	47 48	54	11.0		-0 9	+ 5.4	
12	26	9.1	9.8	+1 15	+24.5	x.	'	56	11.0		+0 40	- 9.6	
13	27	9.2	9.1	+0 25	-29.9	· ·	49	56	11.1		+0 41	+13.5	-
14	28	9.3	9.1	+0 4	-22.0		50	30	11.1		-0 45	+12.6	
15	29	9.3	9.1	-0 12	-15.1		51	56	11.1		-0 46	-10.8	
Į.							52	56	11.1		-0 14	+ 5.1	
16	30	9.4	9.2	-0 5	+ 8.1		53	57	11.2		-0 37	-11.4	Duplex.
17	30	9.4	9.3	+0 51	- 9.3	100	54	58	11.2		-0 49	+ 7.2	D uprom.
18	30	9.4	9.3	+0 11	+20.6		55	58	11.2		-0 48	+ 0.6	4
19	31	9.5	9.3	+1 17	+ 3.6			50	ا ۱۰۰۰				
20	33	9.6	10	+0 31	+25.1		56	58	11.2		+0 53	+ 3.3	
2 I	33	9.6	9.6	+1 26	+21.2		57	58	11.2		-0 21	+ 8.1	
22	34	9.6	9.5	-1 58	- 3.0		58	58	11.2	.	-0 37	-14.4	
23	34	9.6	9.2	-0.31	-27.2		59	61	11.4		+0 9	-12.1	Duplex.
24	34	9.7	9.8	+1 7			60	61	11.4		-() 16	- 9.6	
25	36	9.8		+1 29	+ 4.3		61	61	11.4		-0 21	+11.1	
			9.4	7-1 29	-18.0		62	62	11.5		+0 10	- 2.4	
26	36	9.8	9.8	+1 59	+29.0		63	64	11.7		-0 37	- 1.5	
27	37	9.8	9.5	+1 27	-24.2		64	66	11.8		+0 4	+ 7.5	
28	37	9.8		-0 48	- 2.1		65	69	12.0	ł	-0 12	- 3.9	
29	37	9.9		+1 31	-20.1			1					
30	37	9.9		+0 16	+12.4		66	70	12.0		-0.30	- 0.6	
31	37	9.9	_	10 51		i	67	70	12.1		+0 21	- 4.5	
32	38	9.9	9.5	+0 51	- 1.9		68	71	12.1		+0 40	- 1.8	
	40	10.0	9.3	$-1 \ 40$	-29.9		69	71	12.1		+0 7	+ 4.8	
33	40	10.0	9.5	-1 6	+ 0.6		70	74	12.3		+0 39	- 1.2	
34	1			+0 40	- 3.6	*	71	74	12.3		+0 23	- 3.0	
35	41	10.1		+0 22	+ 3.7		72	74	12.3		$-0 \ 3$	- 6.0	
36	41	10.1	9.5	+0 21	- 6.4		73	74	12.3		-0.5	- 0.9	
37	41		9.3	1	-25.1	Duplex.	74	74	12.3		-0.27	-0.9 -2.7	

^{*} $\frac{1}{2}(84 + 42) = BD - 17^{\circ}.5554, 9^{M}_{\cdot}2.$